



Appendix J: Test Data for E-UTRA Band 17

Product Name: Smart Phone

Test Model: HPPL63A

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





J.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.62	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.57	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.66	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.69	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.76	PASS
Band17	5MHz	QPSK	23755	12RB#0	23.90	PASS
Band17	5MHz	16QAM	23755	12RB#0	23.89	PASS
Band17	5MHz	QPSK	23755	12RB#6	23.89	PASS
Band17	5MHz	16QAM	23755	12RB#6	23.89	PASS
Band17	5MHz	QPSK	23755	12RB#13	23.88	PASS
Band17	5MHz	16QAM	23755	12RB#13	23.95	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.95	PASS
Band17	5MHz	16QAM	23755	25RB#0	23.74	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.78	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.51	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.73	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.53	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.74	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.46	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.88	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.89	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.79	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.89	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.88	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.99	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.81	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.97	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.87	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.46	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.82	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.43	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.83	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.41	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.83	PASS



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Scan code to check authenticity



Band17	5MHz	16QAM	23825	12RB#0	22.09	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.87	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.13	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.87	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.85	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.14	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.54	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.49	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.45	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.53	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.68	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.64	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.79	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.86	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.83	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.83	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.80	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.82	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.61	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.83	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.75	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.67	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.64	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.84	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.08	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.84	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.41	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.44	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.68	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.90	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.64	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.91	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.82	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.02	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.66	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.92	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.70	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.09	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.76	PASS



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Scan code to check authenticity



Band17	10MHz	QPSK	23780	50RB#0	22.62	PASS
Band17	10MHz	16QAM	23790	25RB#12	22.07	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.81	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.98	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.78	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.89	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.59	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.53	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.49	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.55	PASS





J.2 Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	4.27	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	4.89	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.33	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	5.98	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.54	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.10	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.43	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.03	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.63	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.31	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.32	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	5.91	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	4.15	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.11	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.31	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.01	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.10	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	4.99	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.28	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.02	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	4.26	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.44	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.27	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.01	13	PASS



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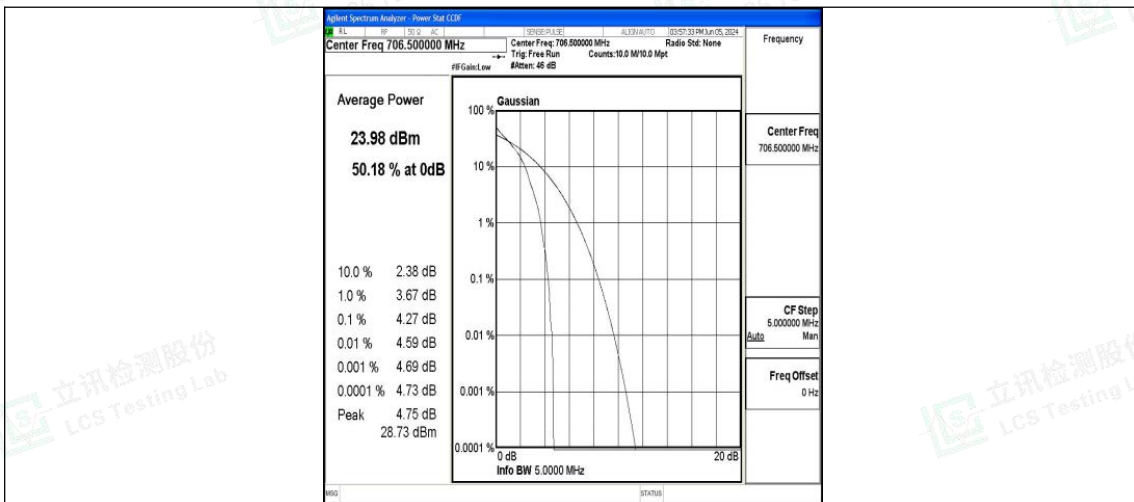
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

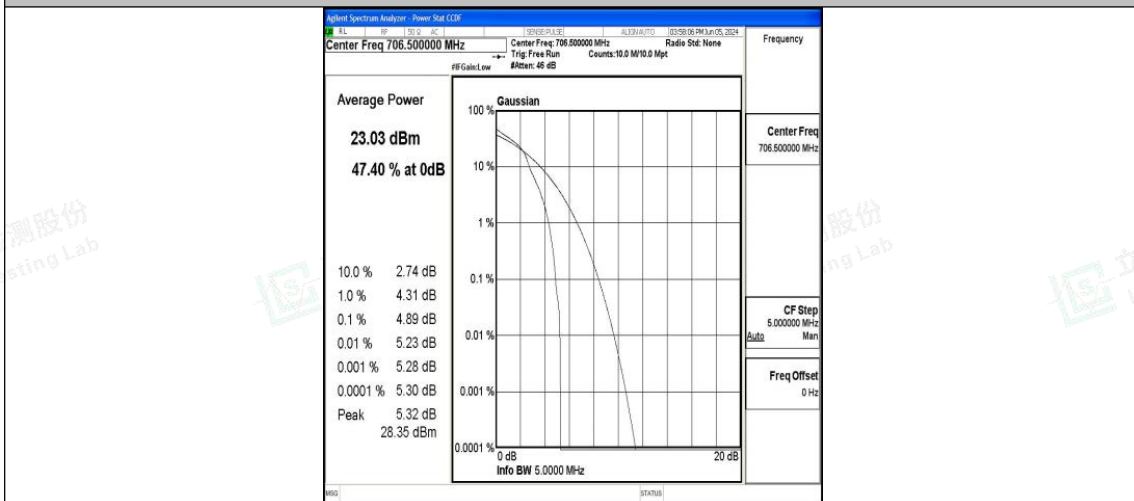
Scan code to check authenticity



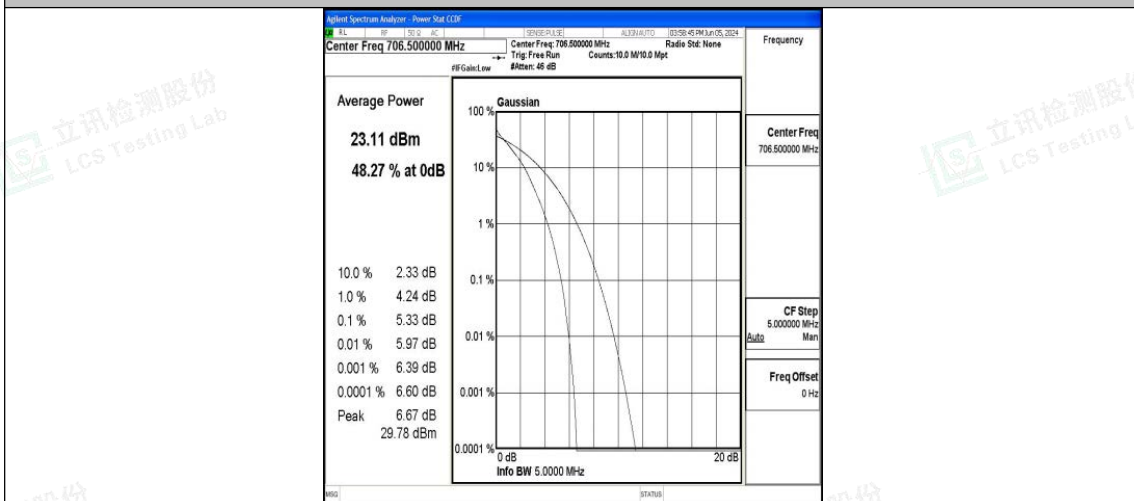
Test Graphs



Band17-5MHz-QPSK-23755-1RB#0-PASS

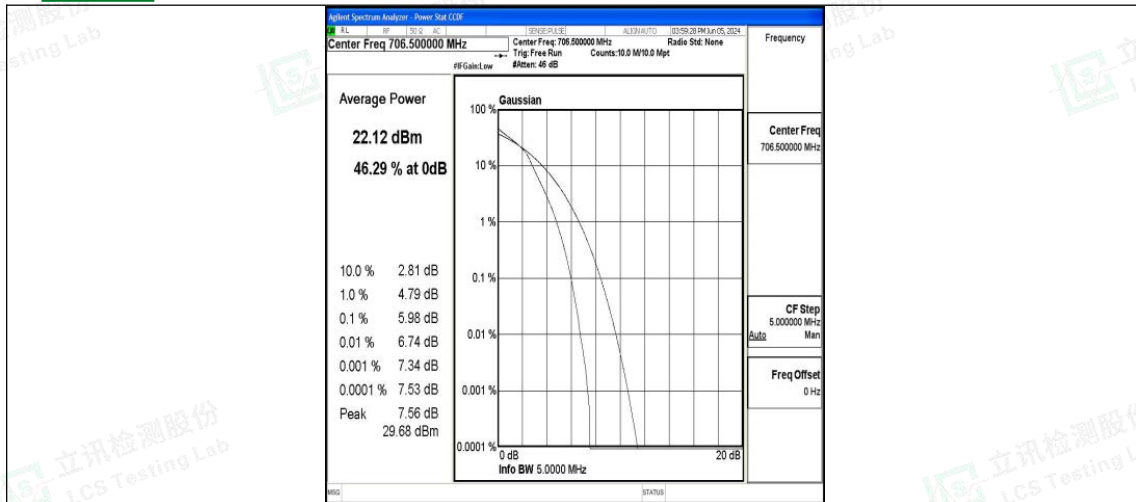


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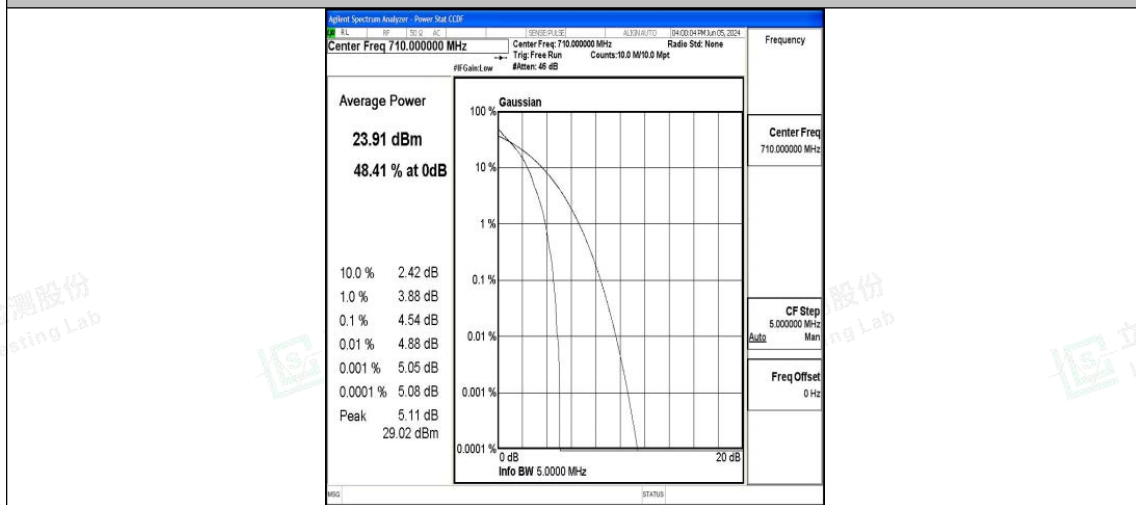


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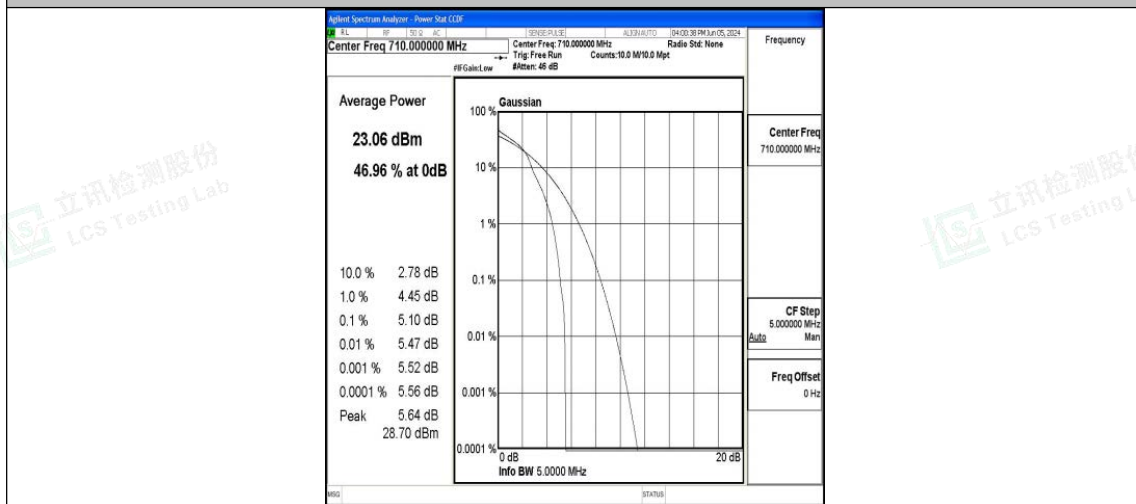




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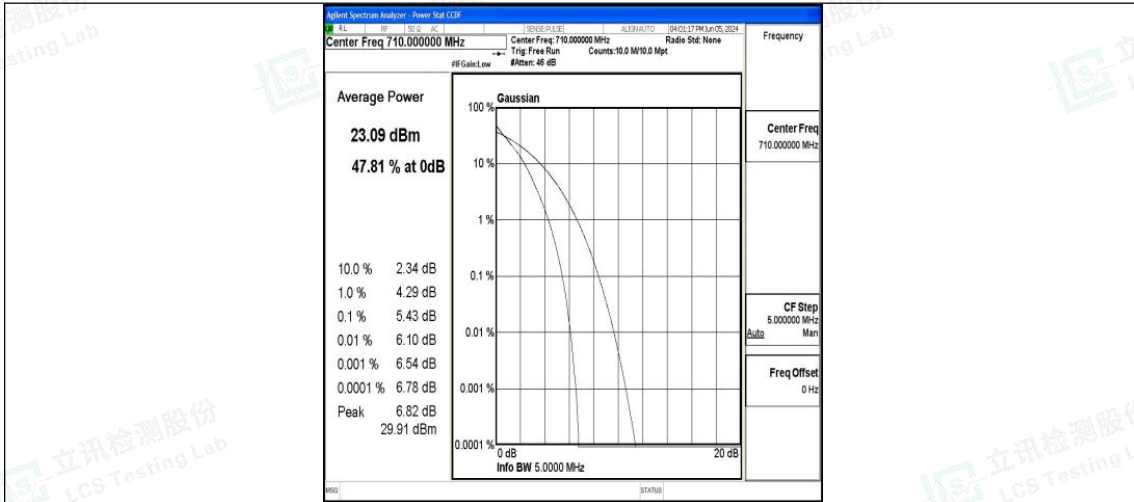


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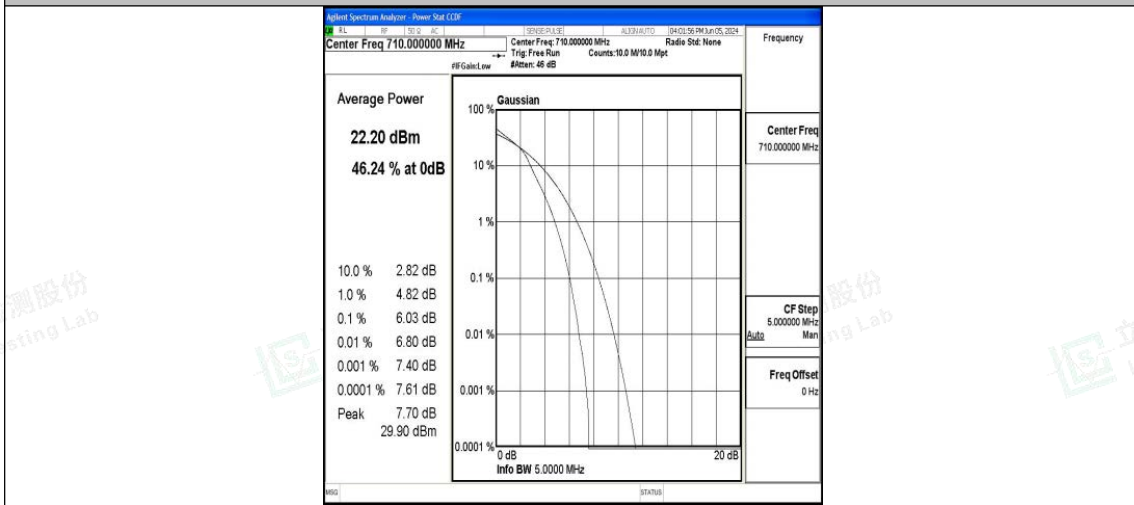


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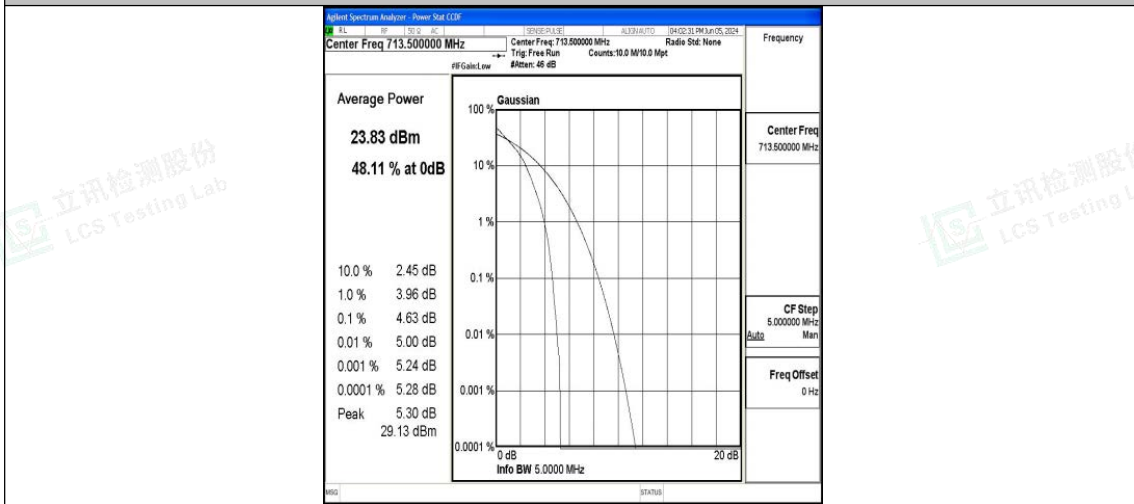




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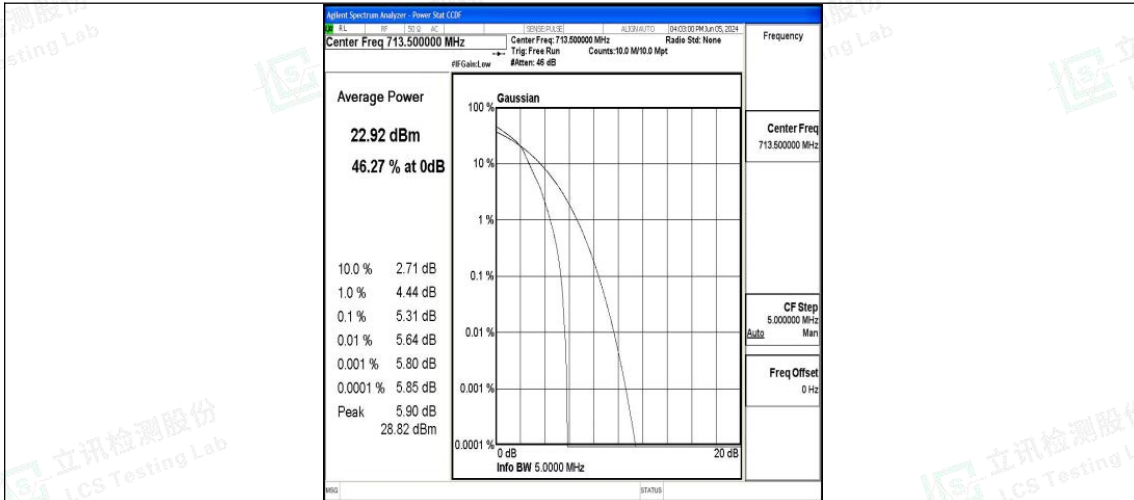


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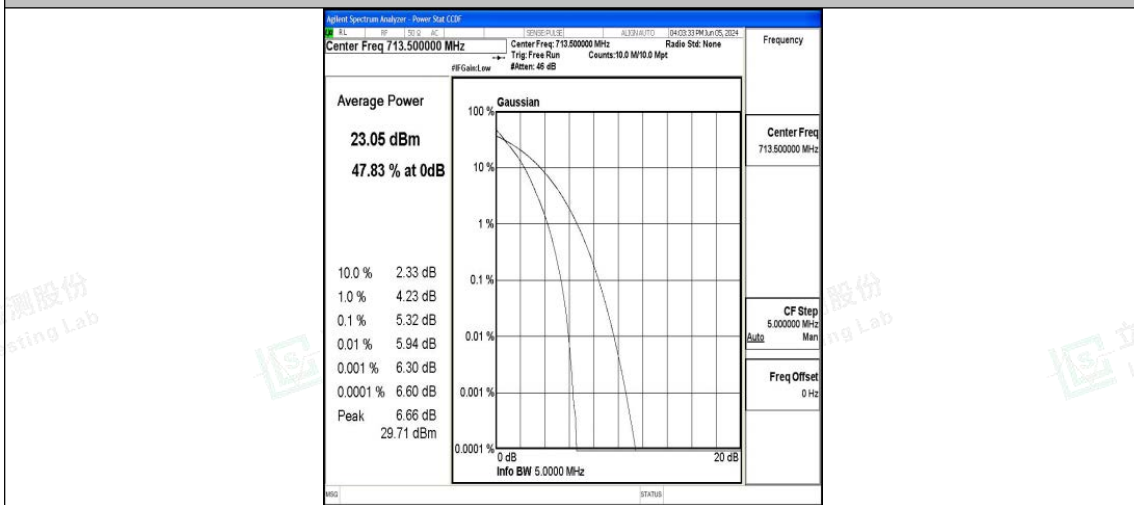


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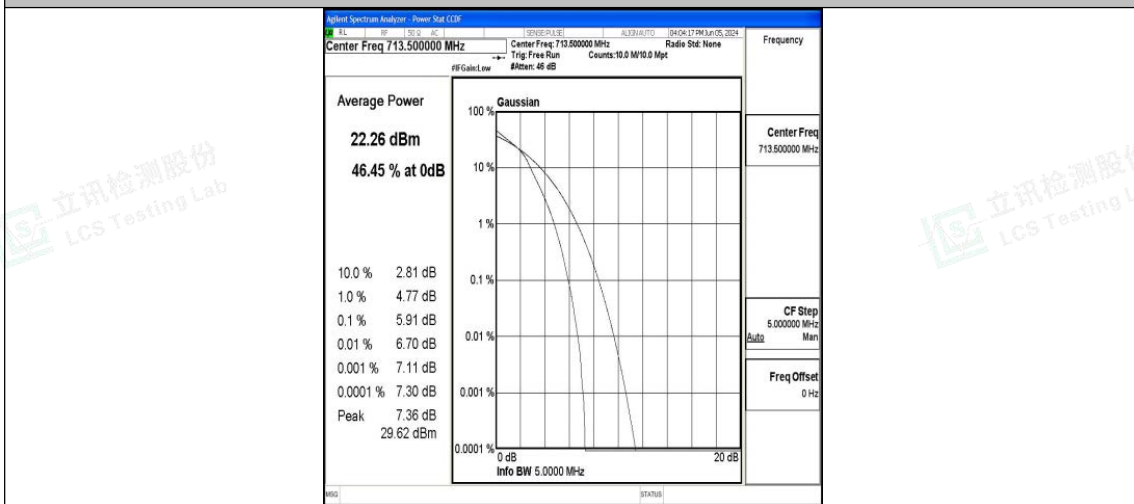




Band17-5MHz-16QAM-23825-1RB#0-PASS

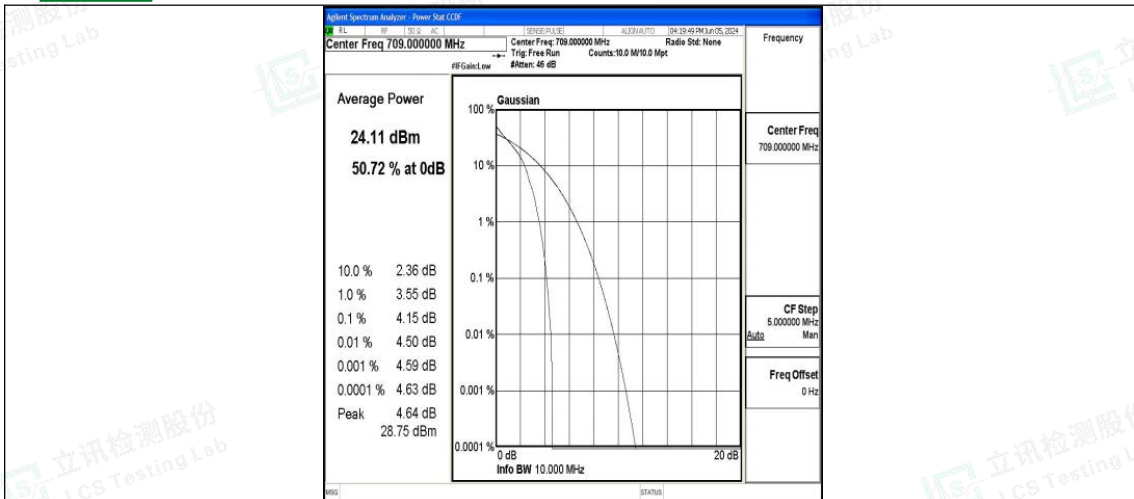


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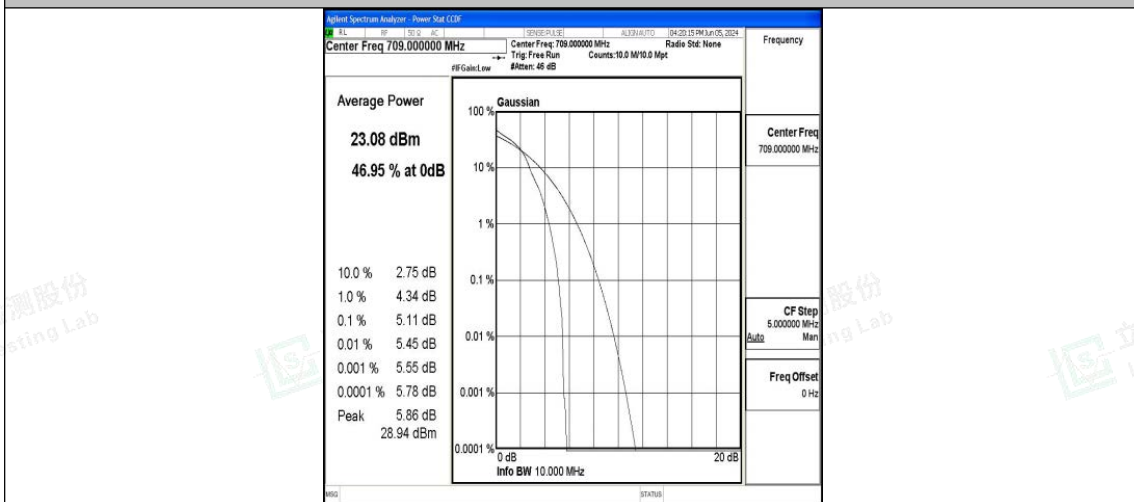


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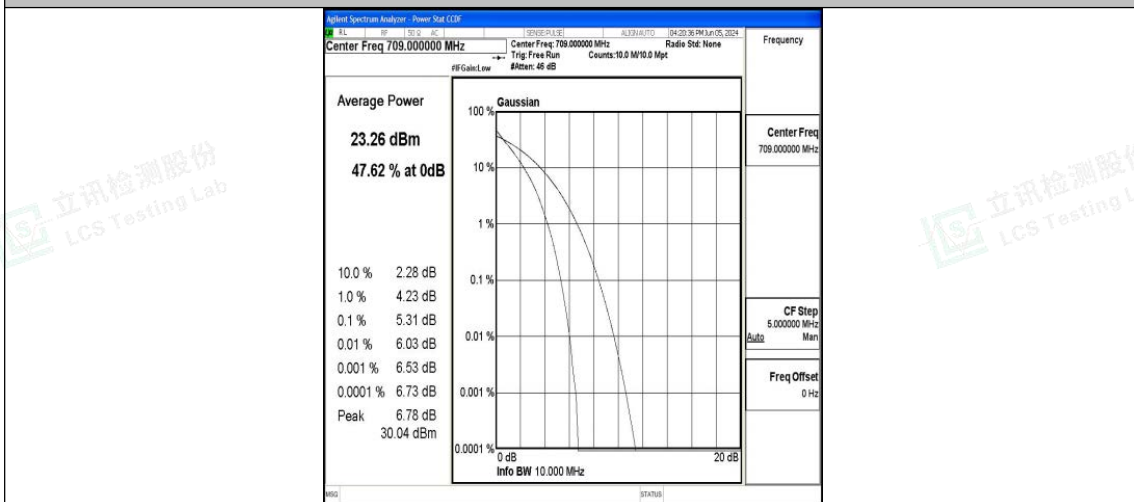




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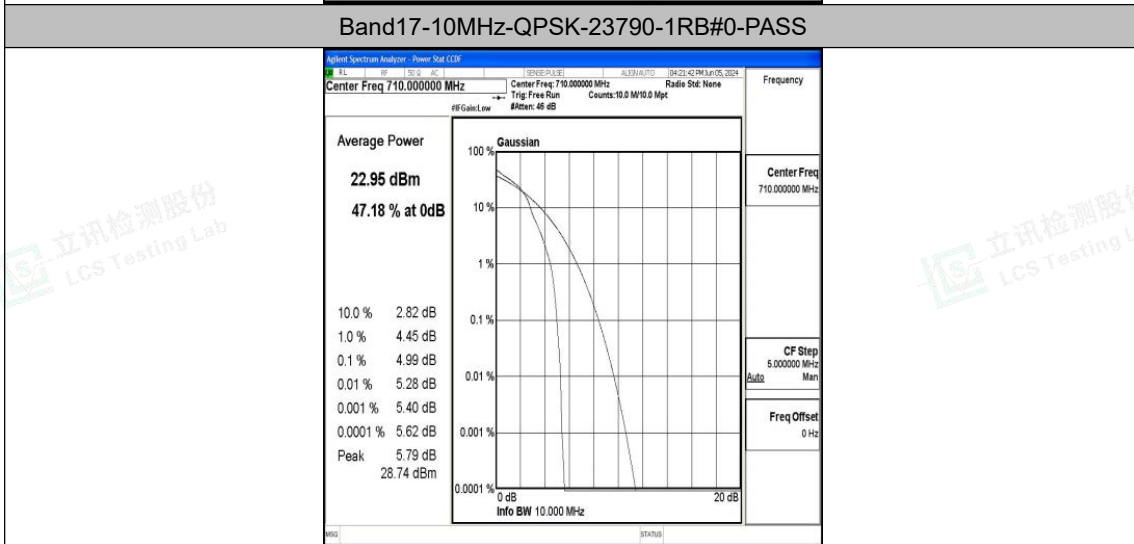
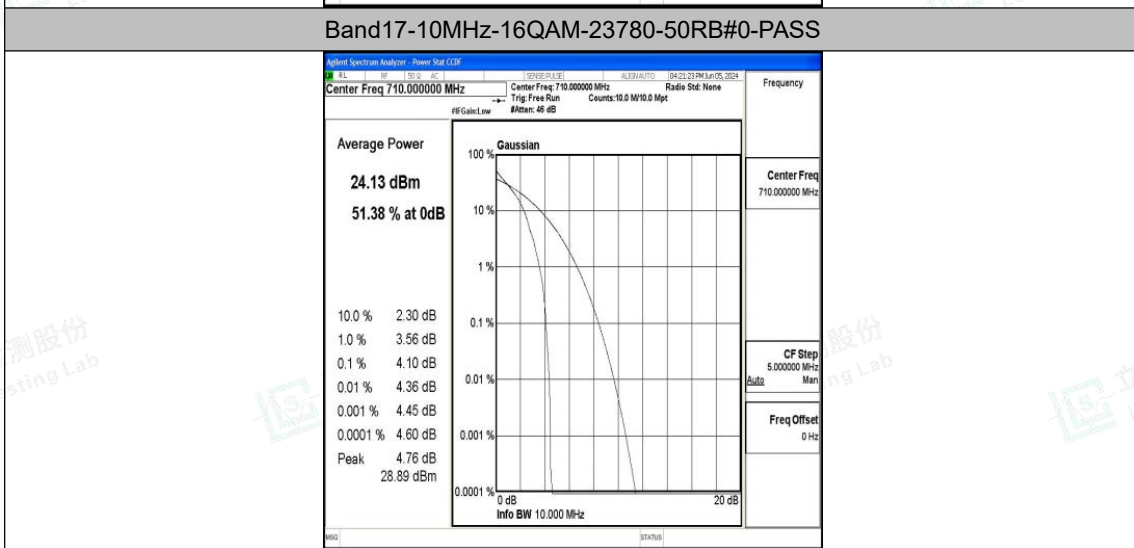
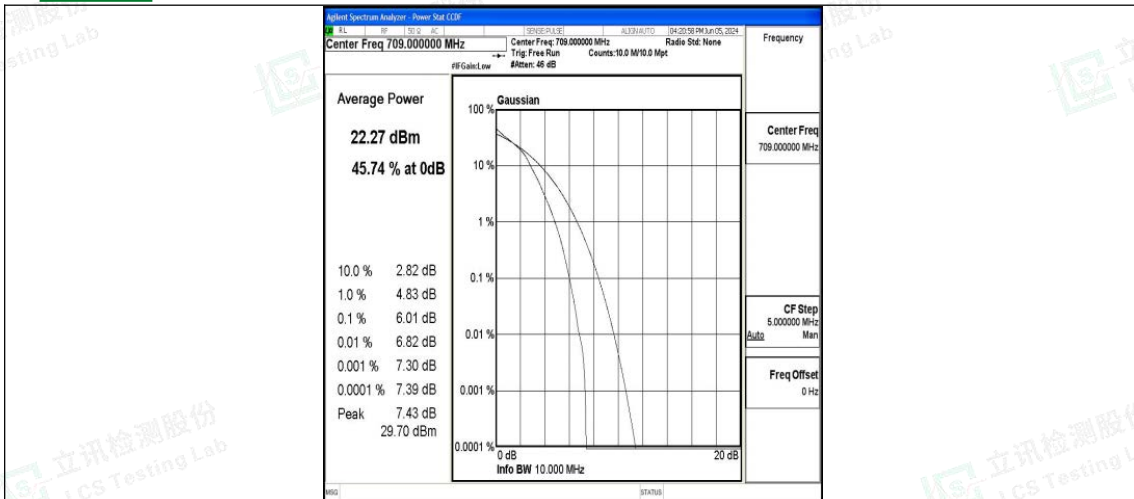


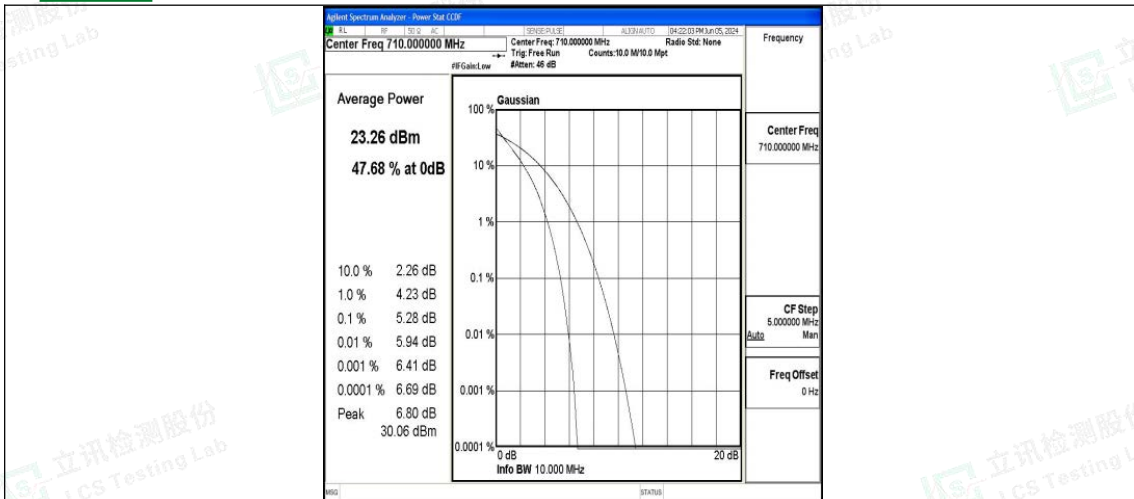
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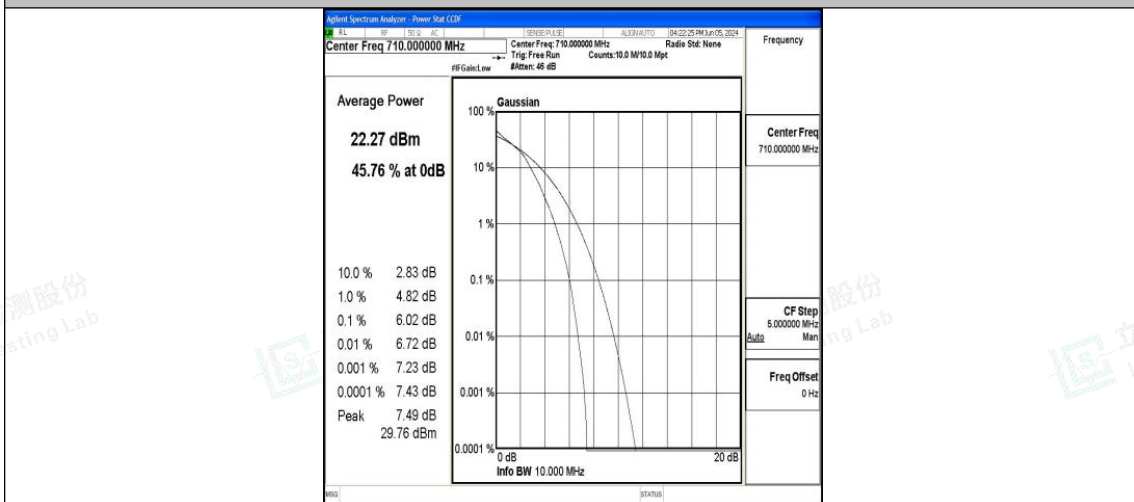
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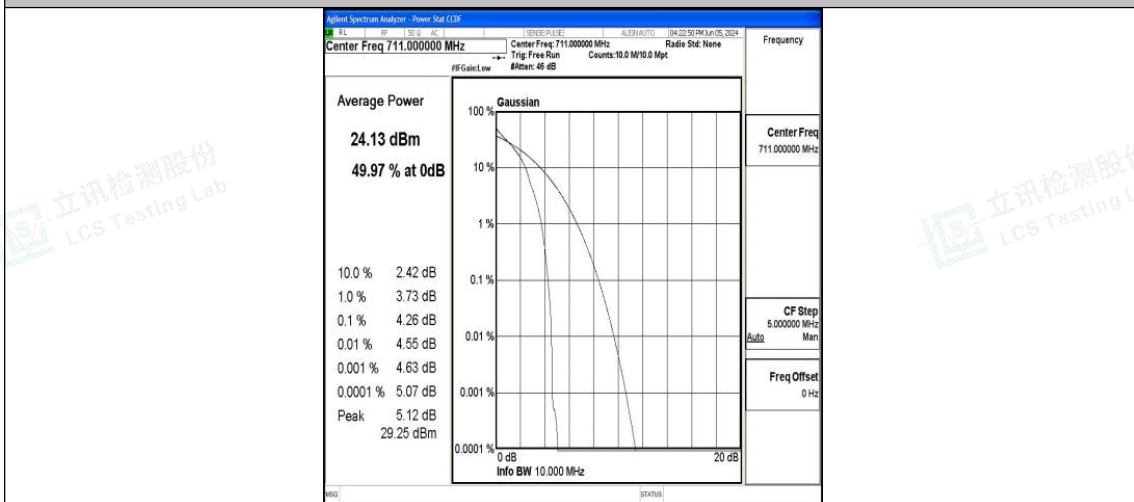




Band17-10MHz-QPSK-23790-50RB#0-PASS

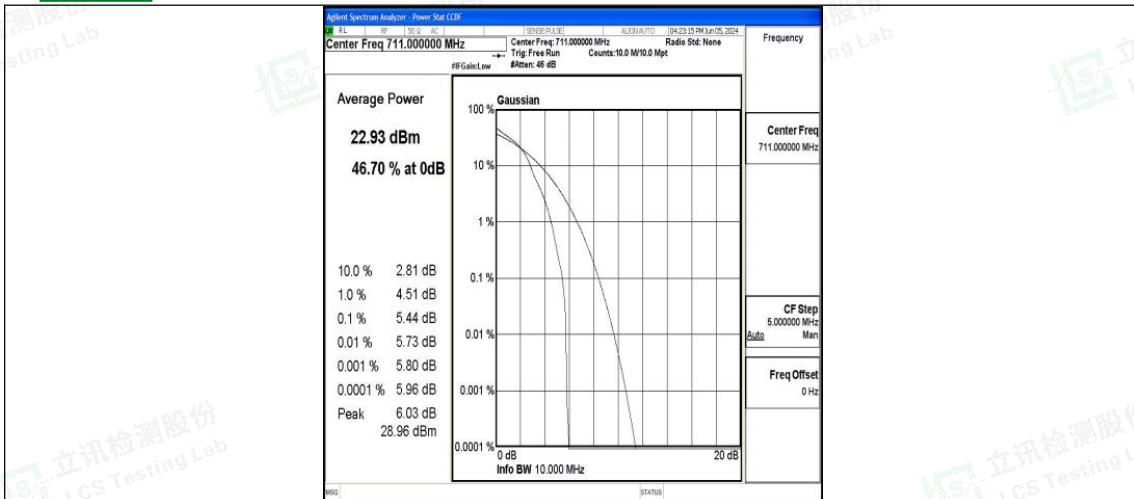


Band17-10MHz-16QAM-23790-50RB#0-PASS

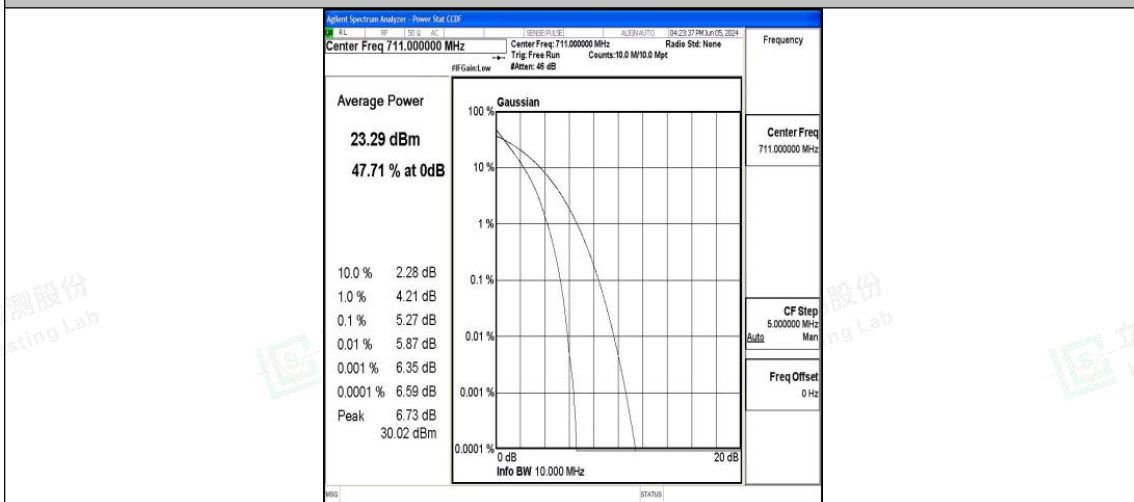


Band17-10MHz-QPSK-23800-1RB#0-PASS

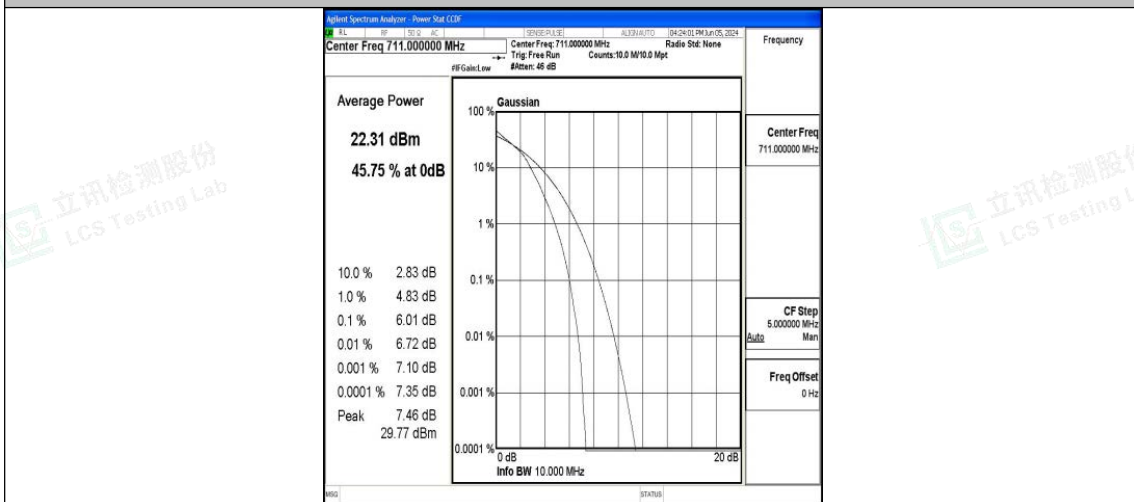




Band17-10MHz-16QAM-23800-1RB#0-PASS



Band17-10MHz-QPSK-23800-50RB#0-PASS



Band17-10MHz-16QAM-23800-50RB#0-PASS





J.3 26dB Bandwidth and Occupied Bandwidth

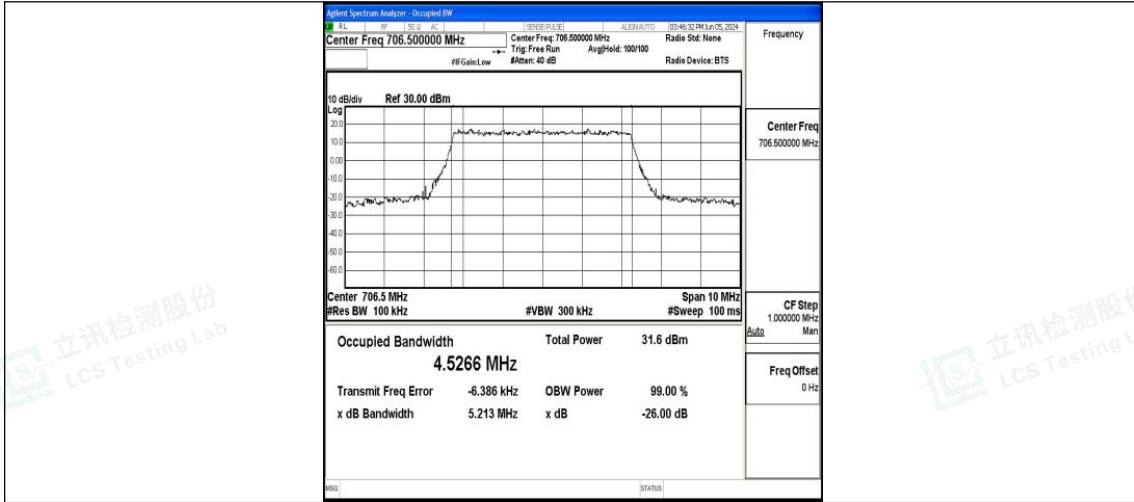
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5266	5.213	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5166	5.124	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5206	5.213	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5248	5.171	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5135	5.160	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5284	5.210	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0117	10.20	PASS
Band17	10MHz	16QAM	23780	50RB#0	9.0142	10.10	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0285	10.17	PASS
Band17	10MHz	16QAM	23790	50RB#0	9.0167	10.11	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9961	10.05	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9998	9.981	PASS

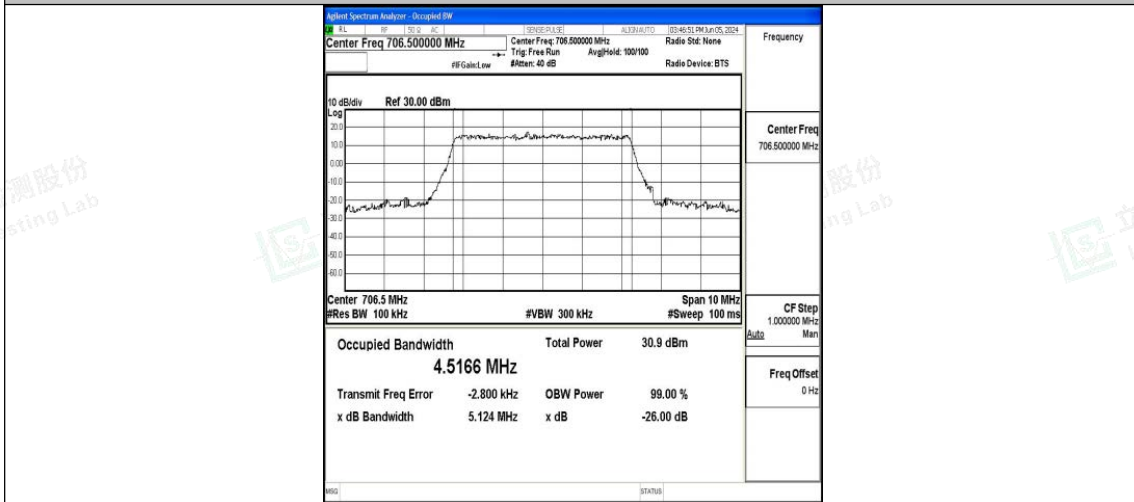




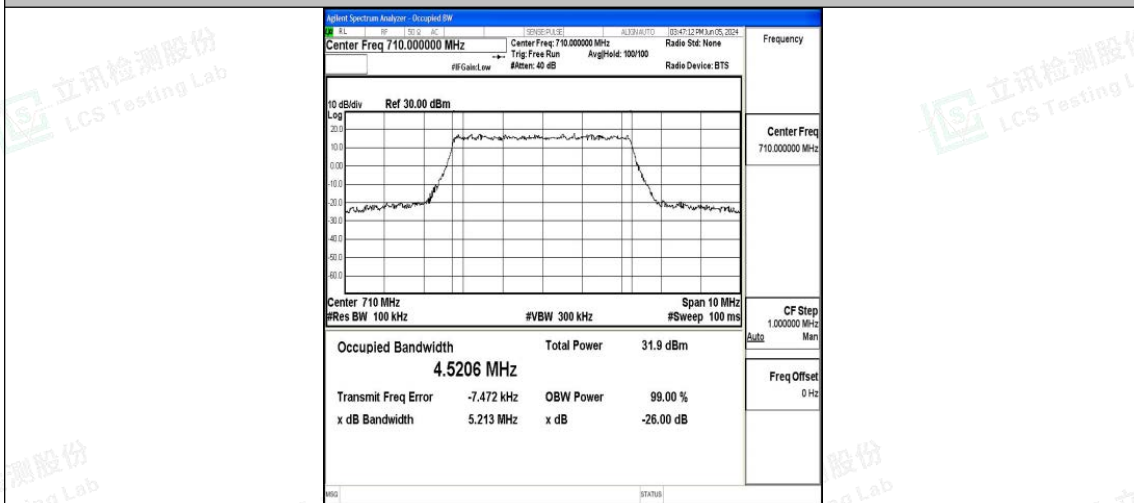
Test Graphs



Band17-5MHz-QPSK-23755-25RB#0-PASS

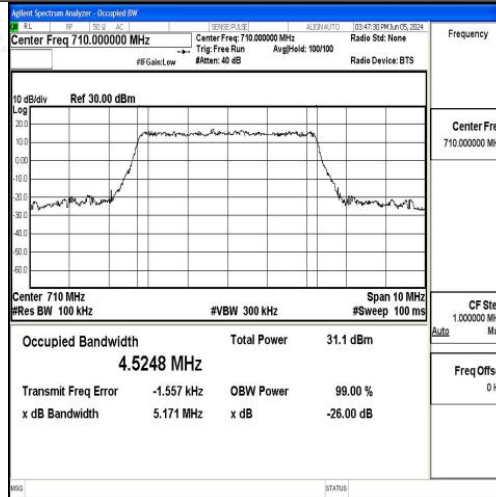


Band17-5MHz-16QAM-23755-25RB#0-PASS

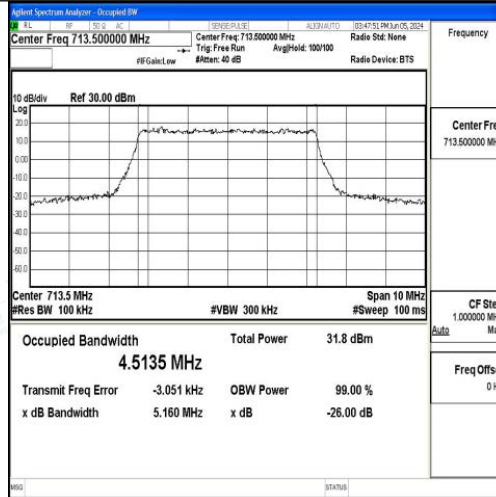




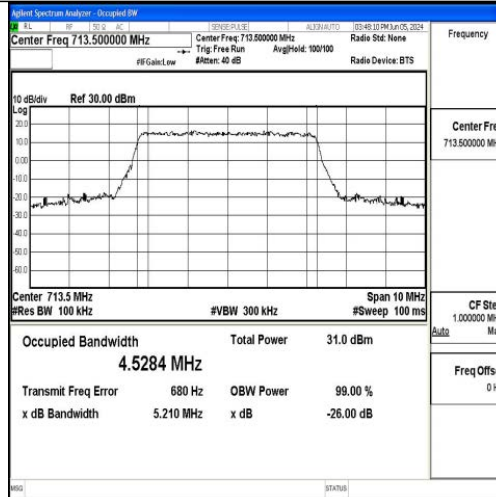
Band17-5MHz-QPSK-23790-25RB#0-PASS



Band17-5MHz-16QAM-23790-25RB#0-PASS

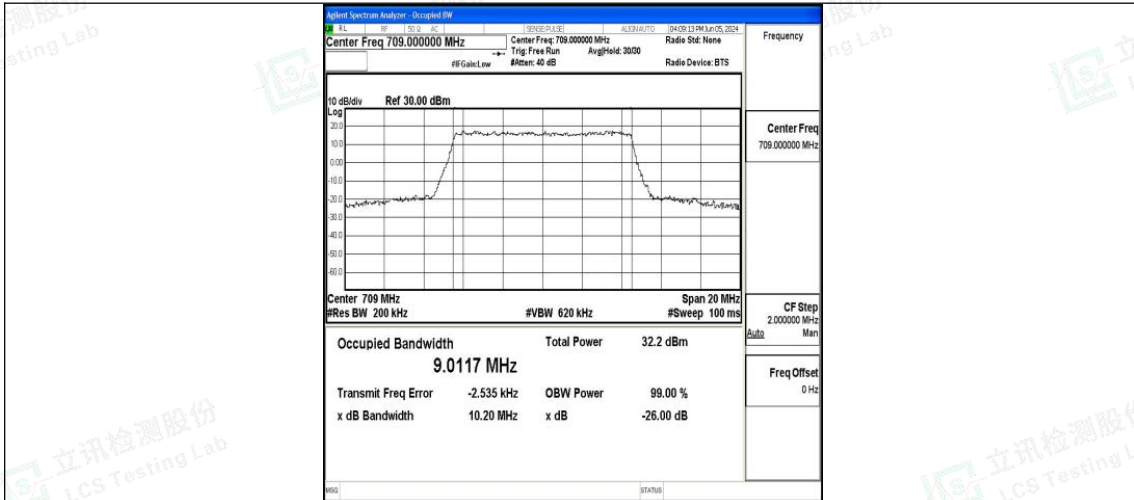


Band17-5MHz-QPSK-23825-25RB#0-PASS

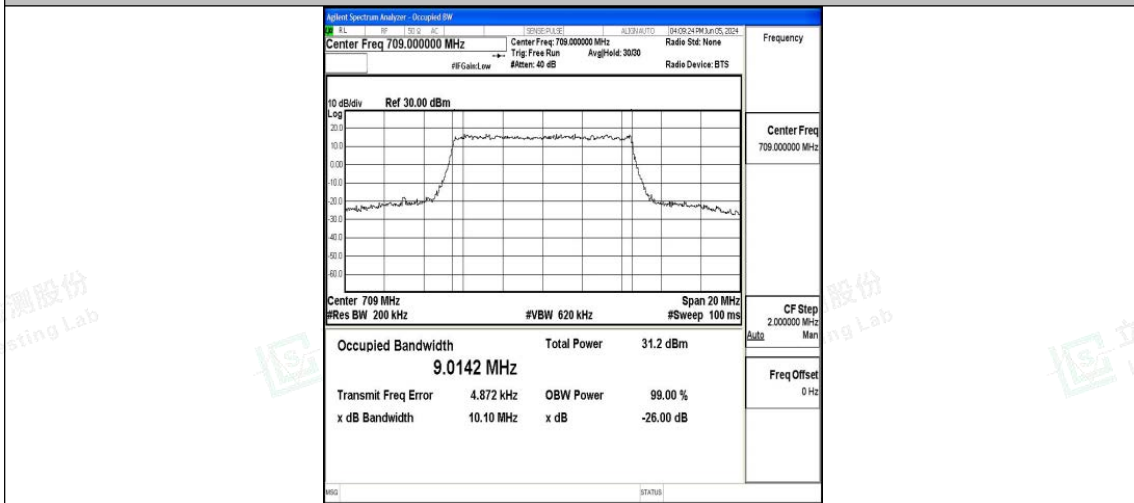


Band17-5MHz-16QAM-23825-25RB#0-PASS

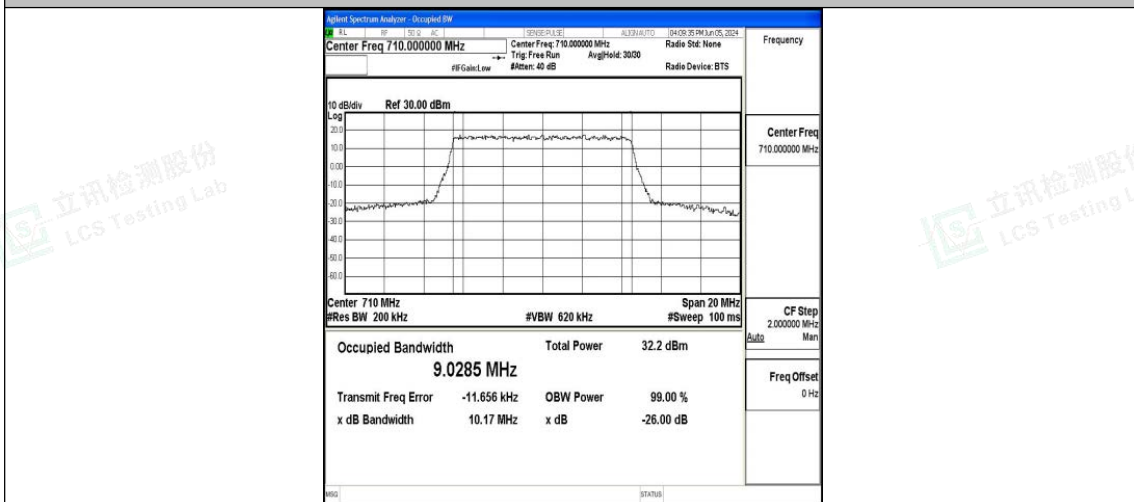




Band17-10MHz-QPSK-23780-50RB#0-PASS

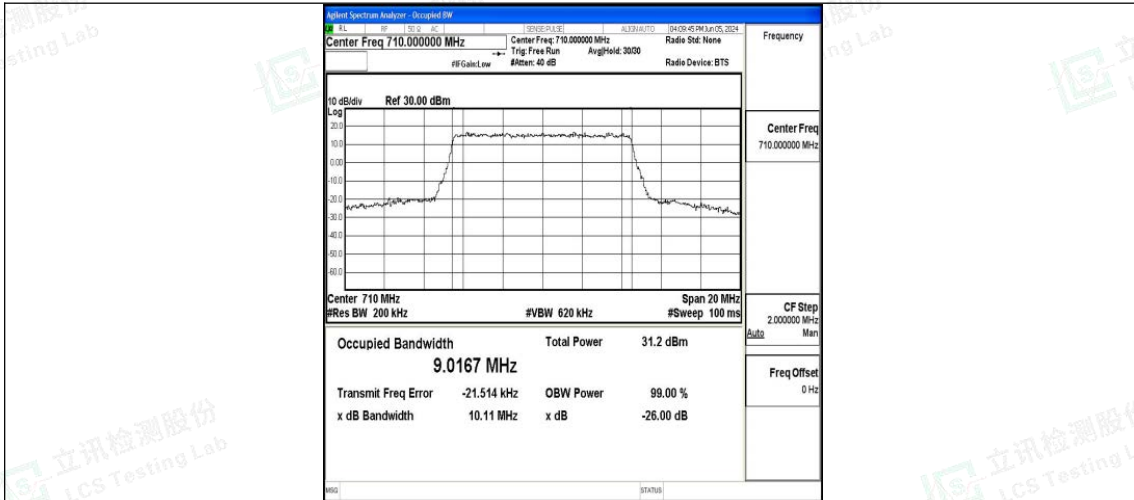


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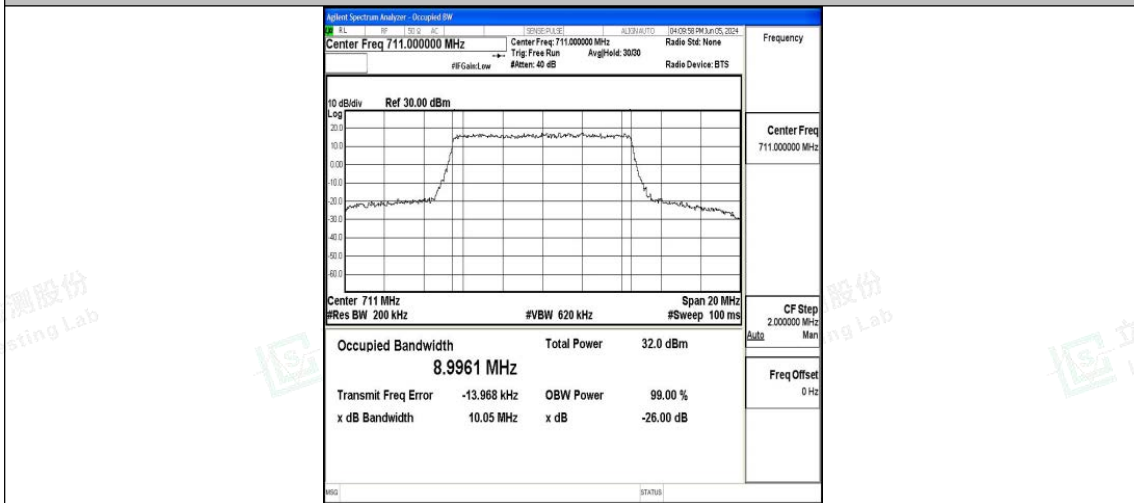


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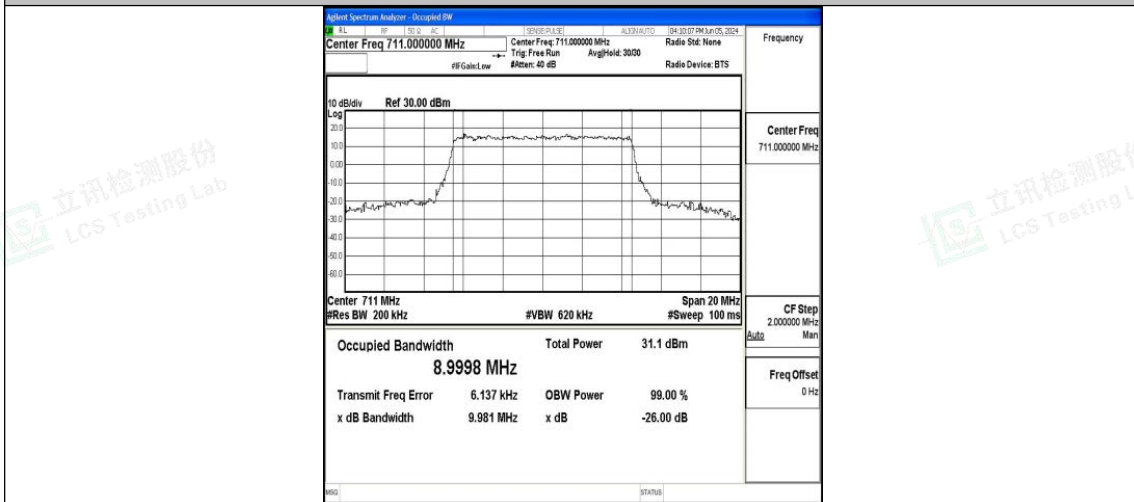




Band17-10MHz-16QAM-23790-50RB#0-PASS



Band17-10MHz-QPSK-23800-50RB#0-PASS



Band17-10MHz-16QAM-23800-50RB#0-PASS



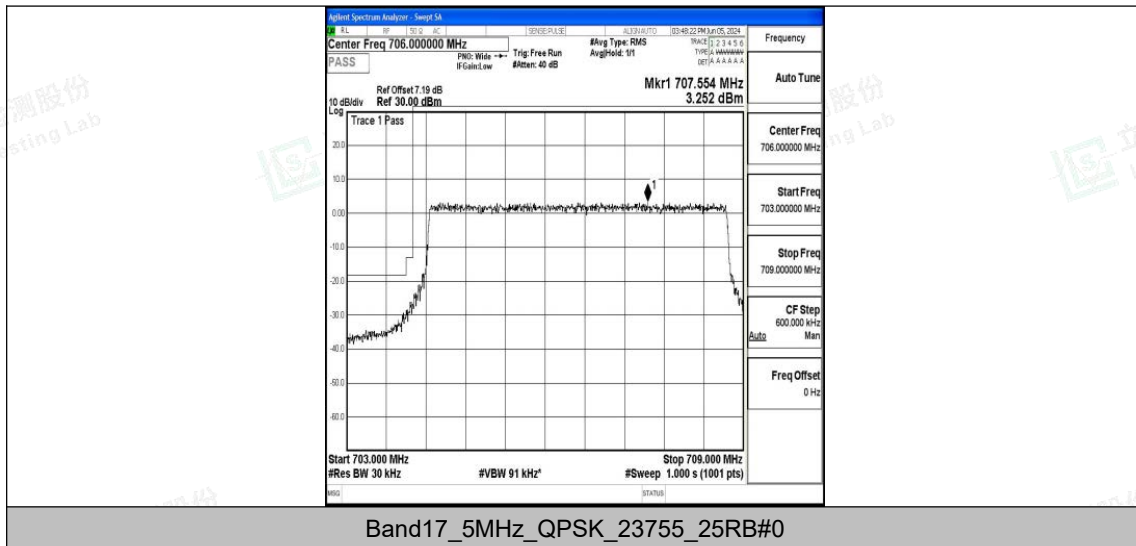


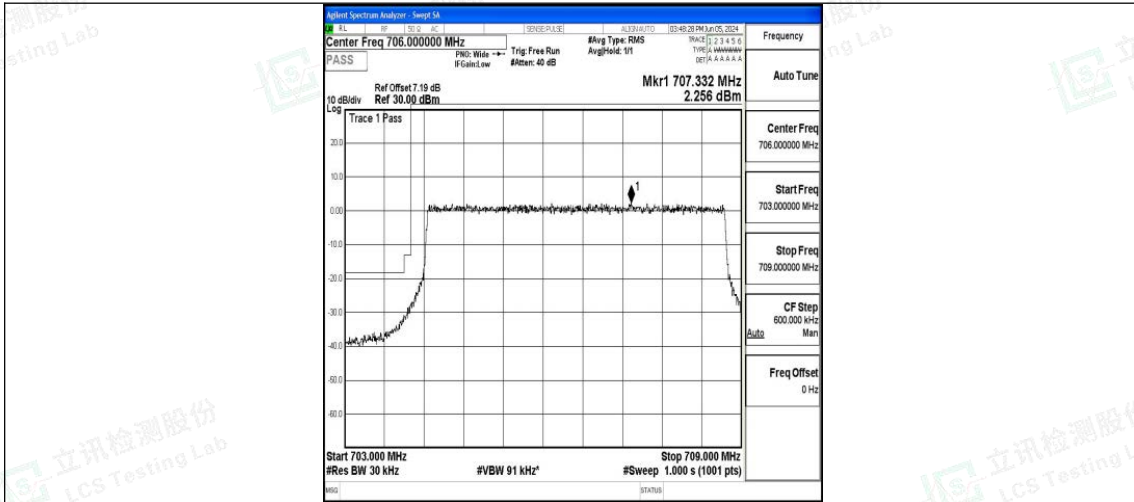
J.4 Band Edge

Test Result

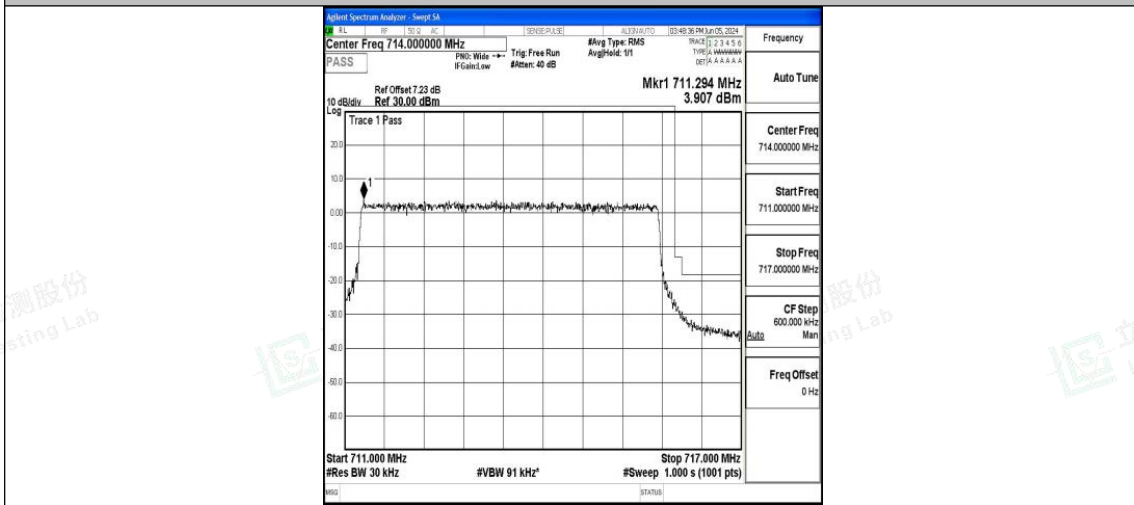
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	703.86	-29.48	PASS
Band17	5MHz	16QAM	23755	25RB#0	703.90	-31.01	PASS
Band17	5MHz	QPSK	23825	25RB#0	716.10	-29.17	PASS
Band17	5MHz	16QAM	23825	25RB#0	716.10	-31.17	PASS
Band17	10MHz	QPSK	23780	50RB#0	703.89	-33.14	PASS
Band17	10MHz	16QAM	23780	50RB#0	703.80	-35.79	PASS
Band17	10MHz	QPSK	23800	50RB#0	716.14	-34.70	PASS
Band17	10MHz	16QAM	23800	50RB#0	716.19	-36.90	PASS

Test Graphs

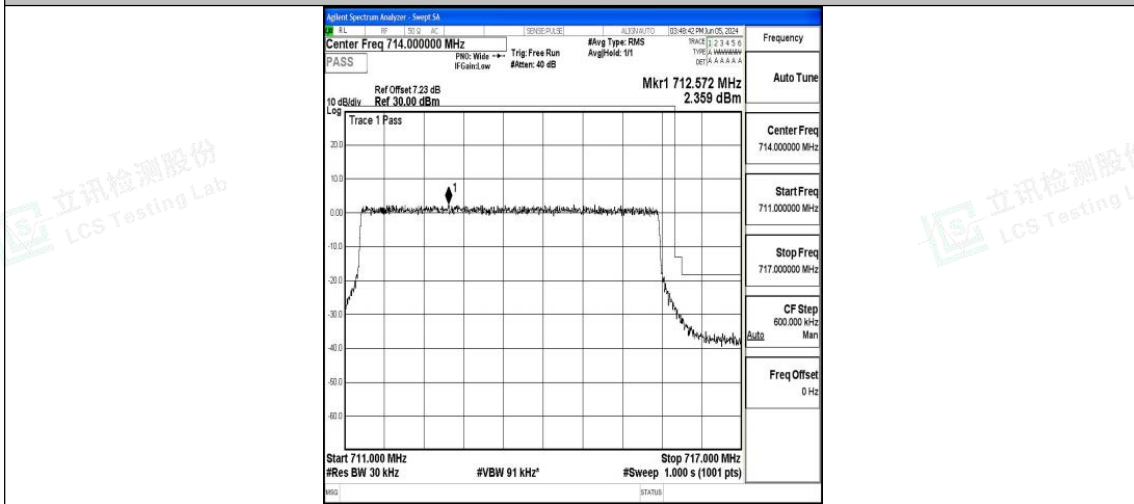




Band17_5MHz_16QAM_23755_25RB#0

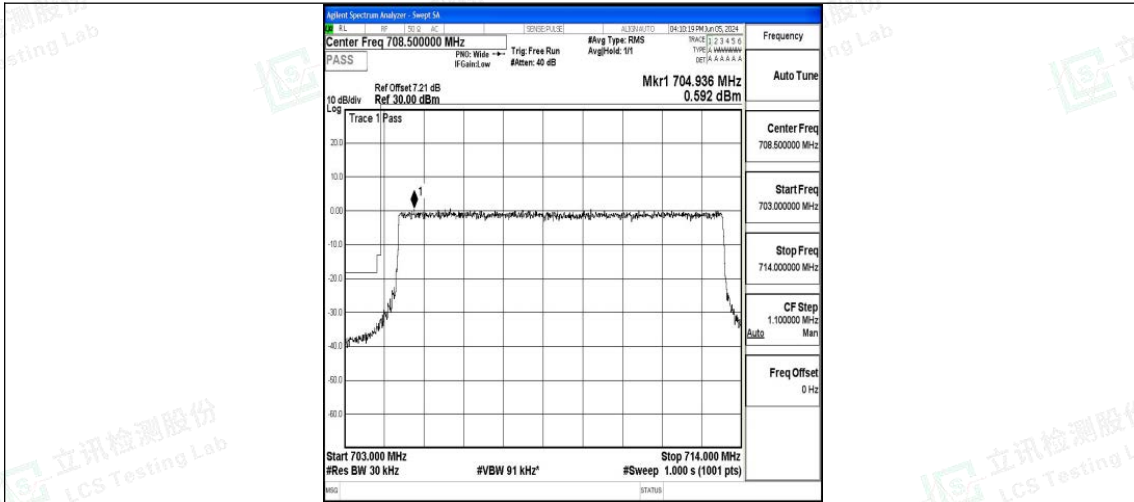


Band17_5MHz_QPSK_23825_25RB#0

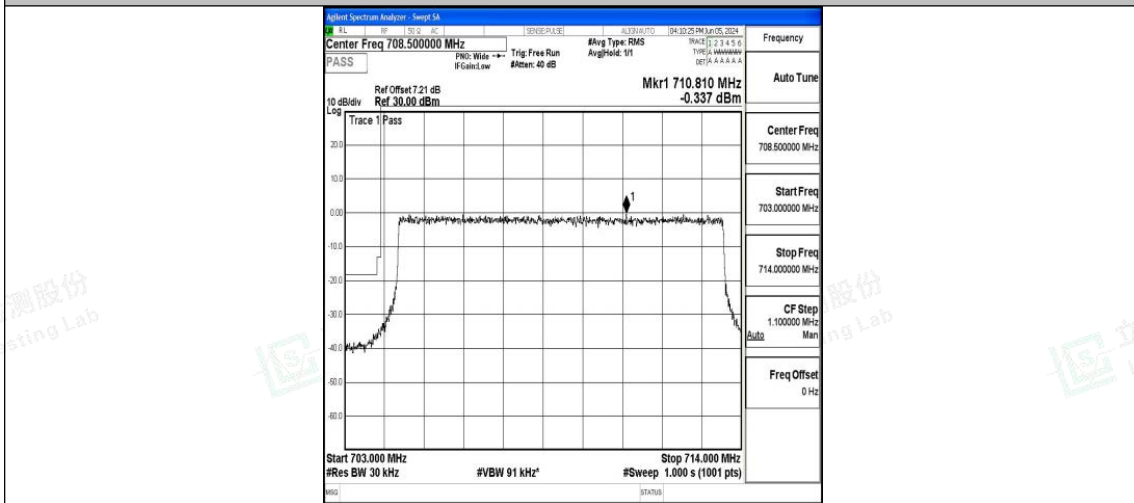


Band17_5MHz_16QAM_23825_25RB#0

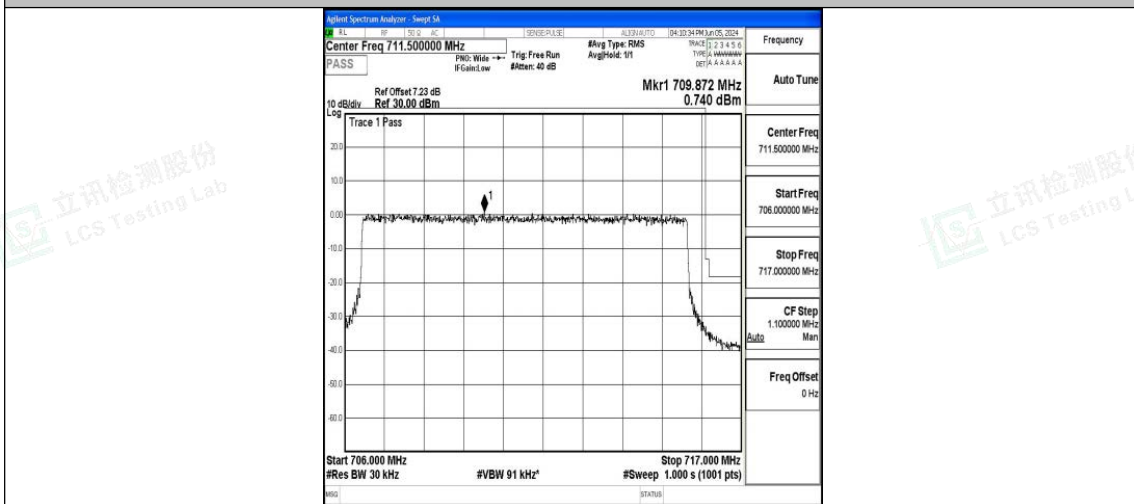




Band17_10MHz_QPSK_23780_50RB#0

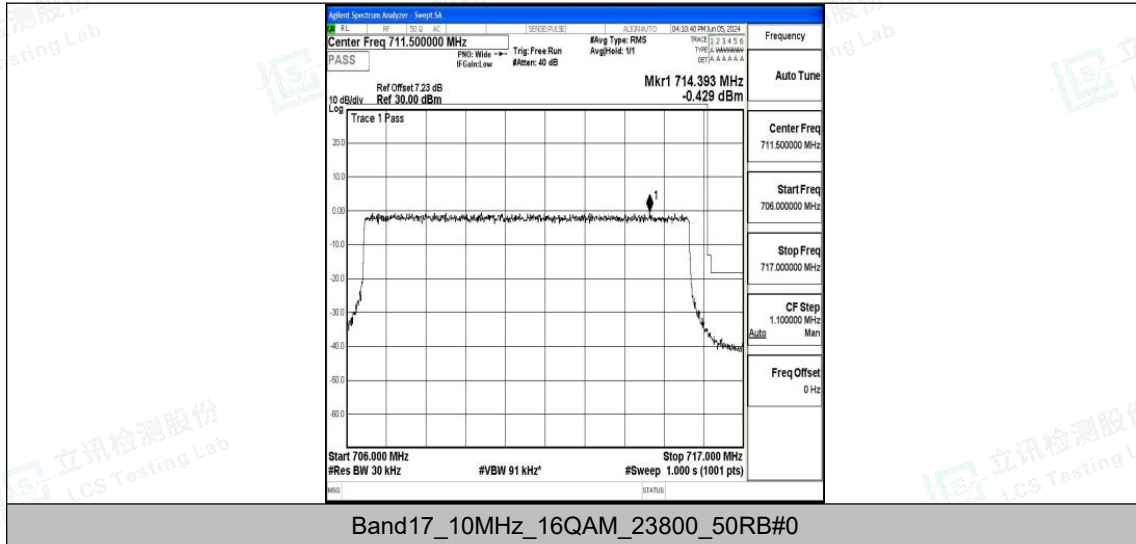


Band17_10MHz_16QAM_23780_50RB#0



Band17_10MHz_QPSK_23800_50RB#0







J.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	-59.26	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-53.26	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-53.16	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-42.08	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-44.04	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-58.91	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-52.32	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-62.22	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-42.64	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-44.19	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-55.54	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-52.83	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-61.97	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-41.70	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-43.85	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-55.54	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-53.31	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-62.26	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-41.87	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-44.23	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-56.06	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-53.52	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-41.69	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-43.60	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-43.90	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-56.54	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-53.53	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-41.02	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-44.81	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-44.15	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-55.89	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-54.11	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-61.83	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-43.84	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

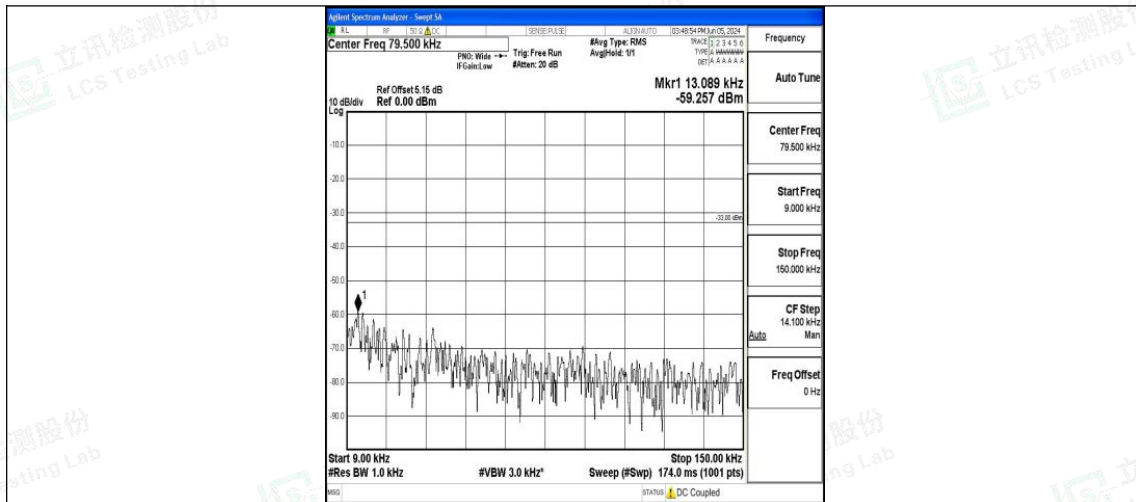
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



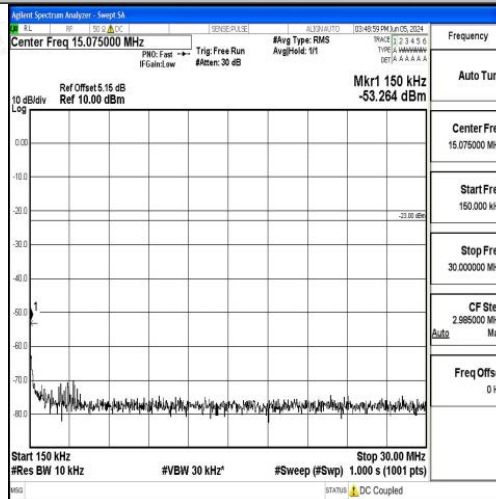
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-44.02	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-57.97	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-51.41	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-61.89	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-44.20	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-44.21	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-56.00	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-54.16	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-62.04	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-41.65	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-44.46	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-59.02	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-52.68	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-61.82	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-42.05	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-44.29	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-57.17	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-52.22	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-61.67	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-44.59	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-44.51	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-57.11	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-52.09	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-61.54	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-46.31	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-43.92	PASS

Test Graphs

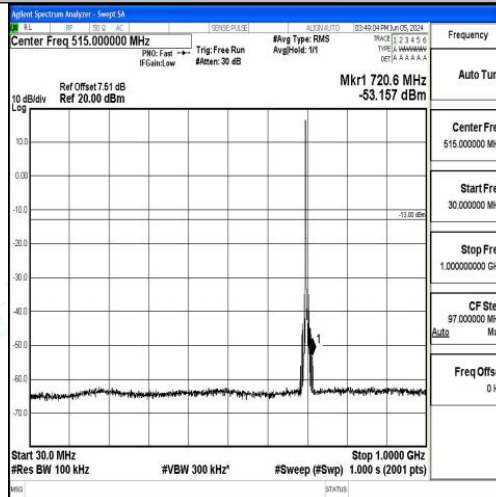




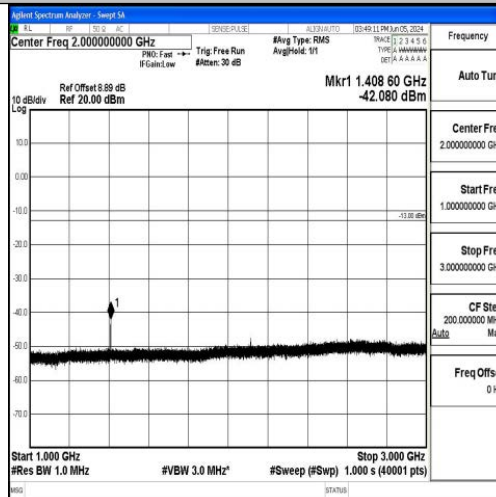
Band17_5MHz_QPSK_23755_1RB#0_0.009~0.15_0.009~0.15



Band17_5MHz_QPSK_23755_1RB#0_0.15~30_0.15~30

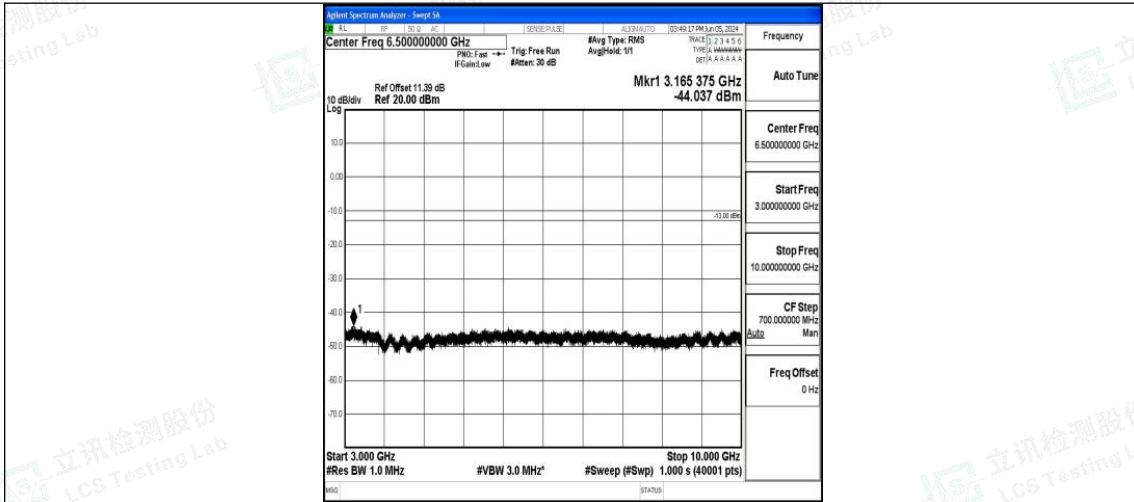


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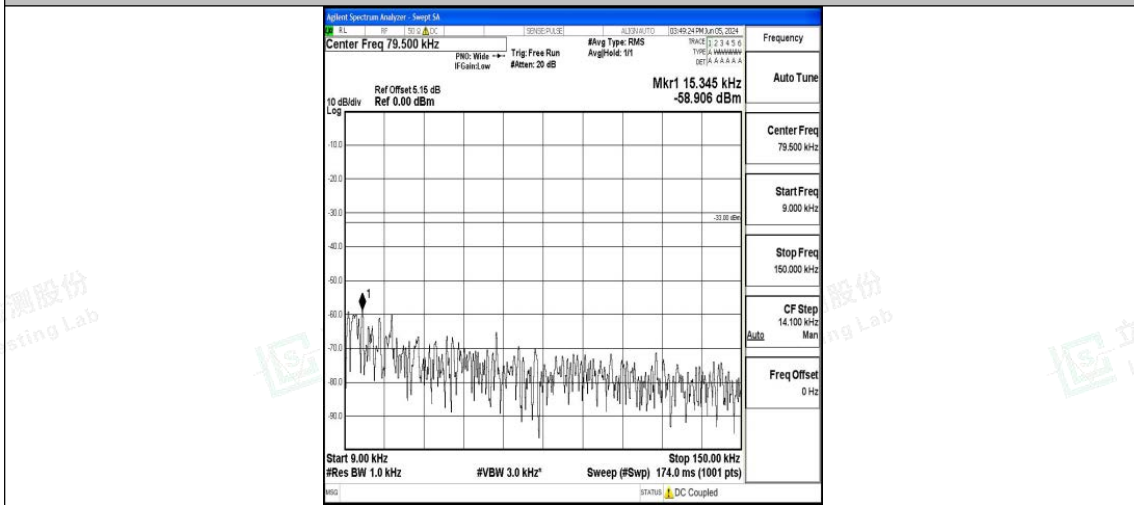


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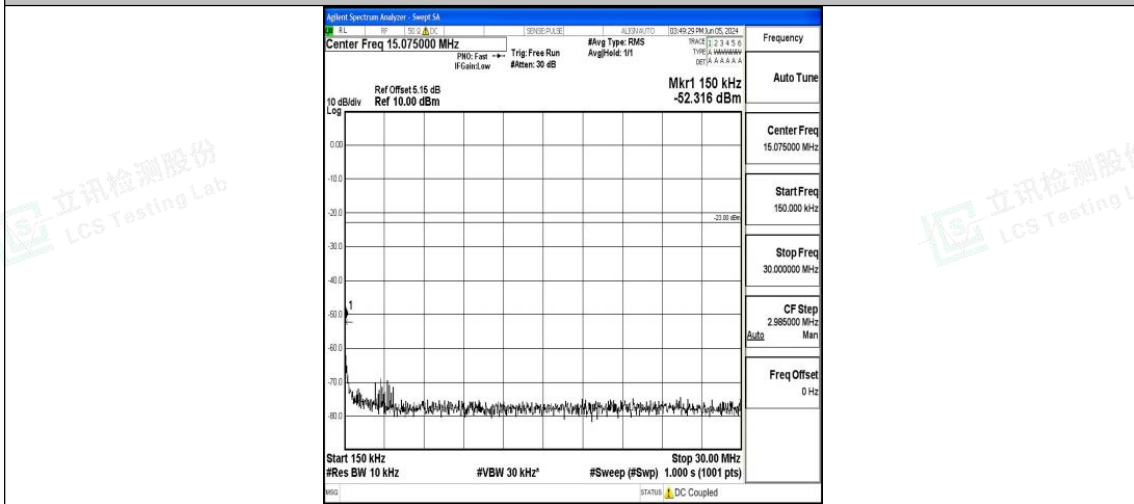




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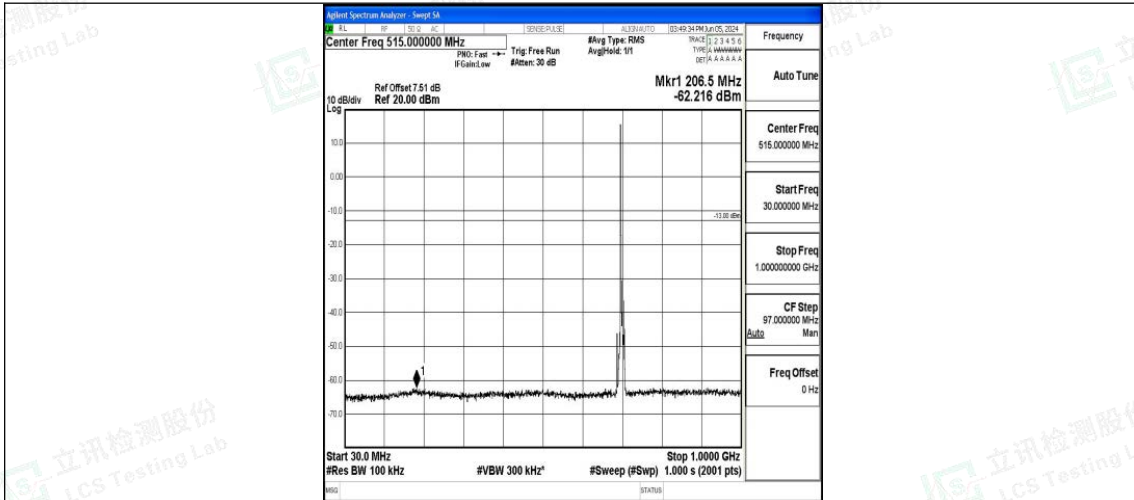


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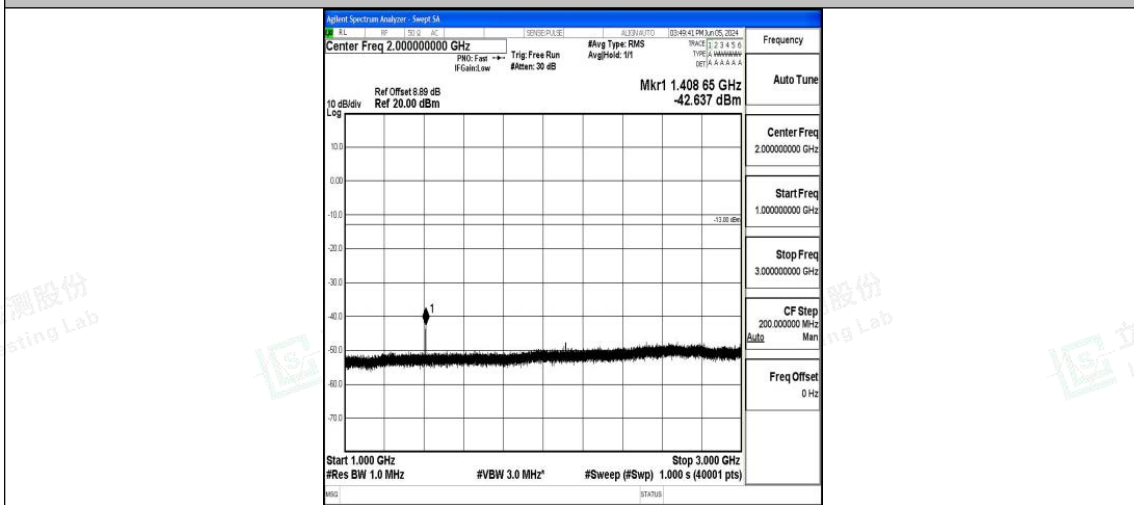


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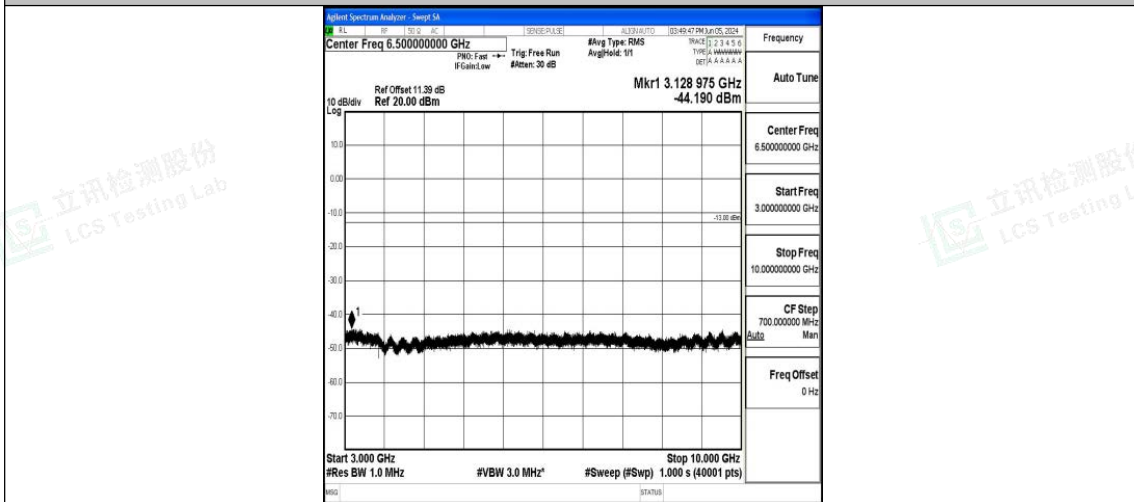




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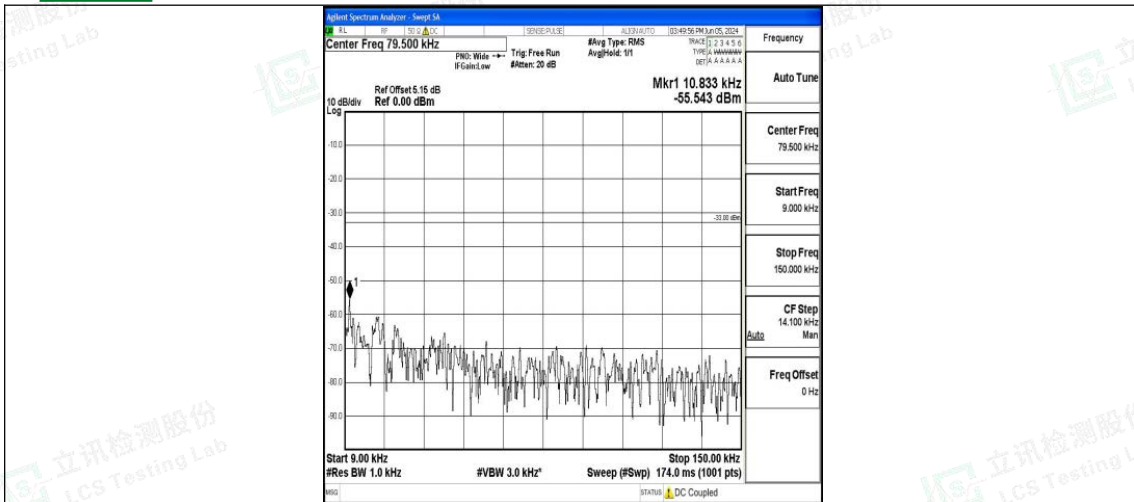


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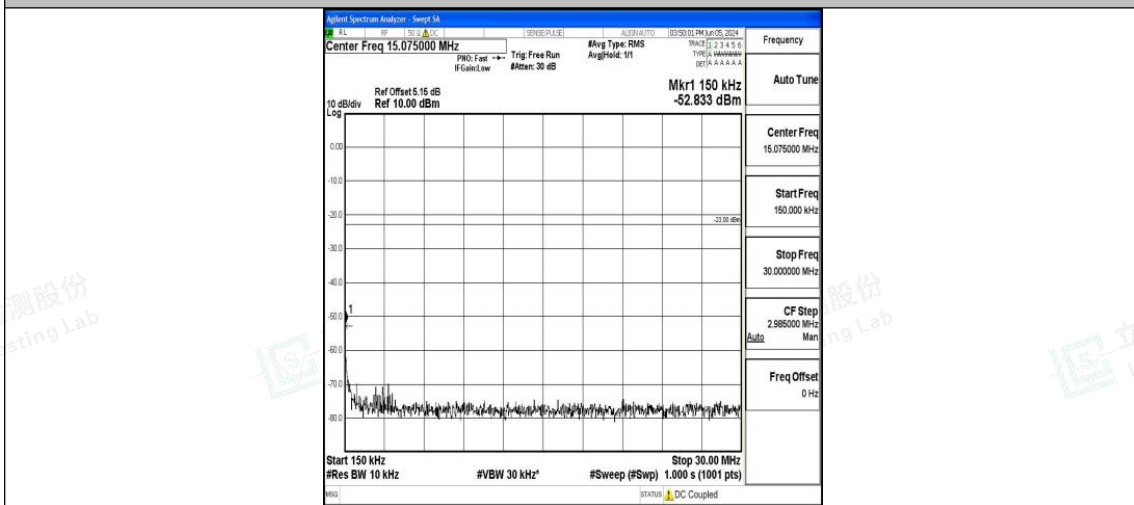


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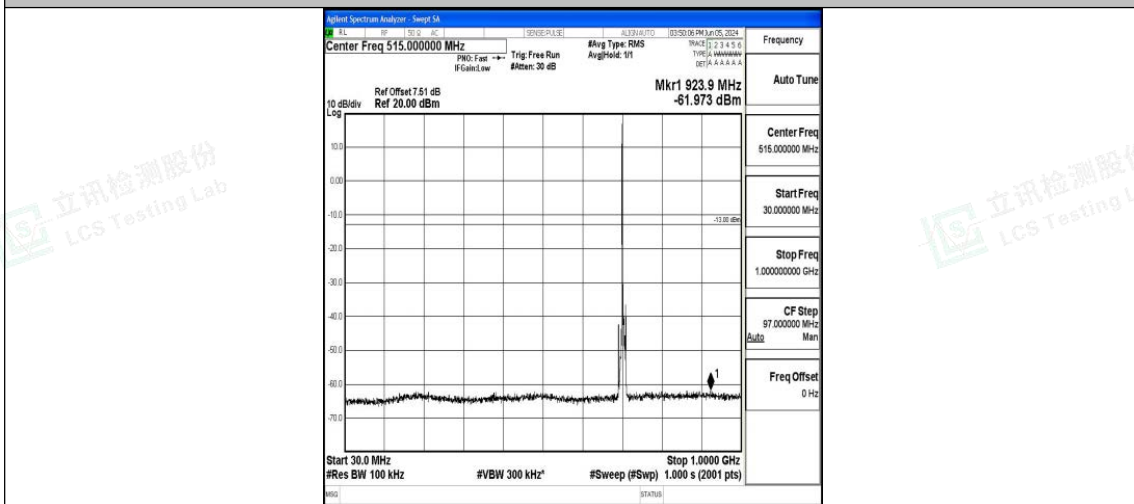




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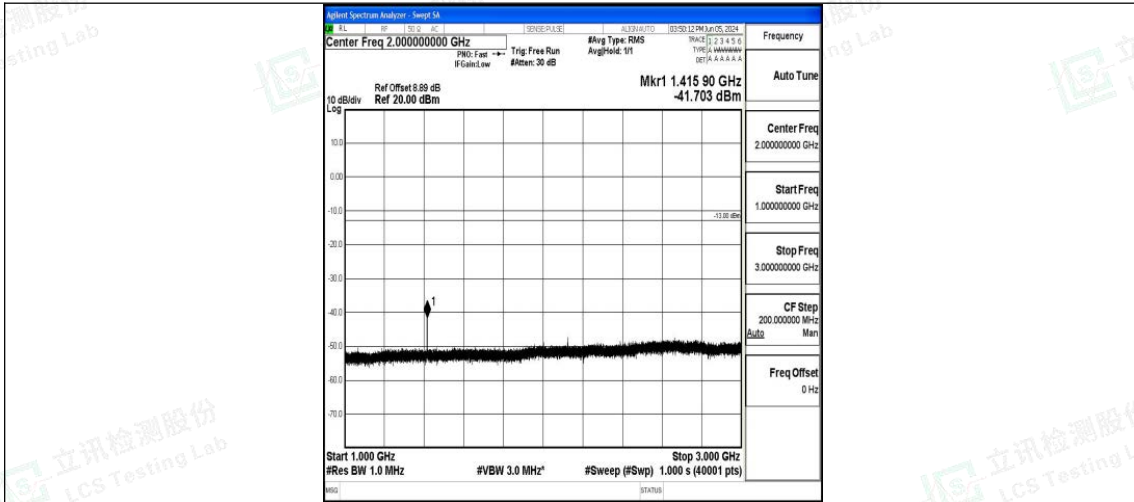


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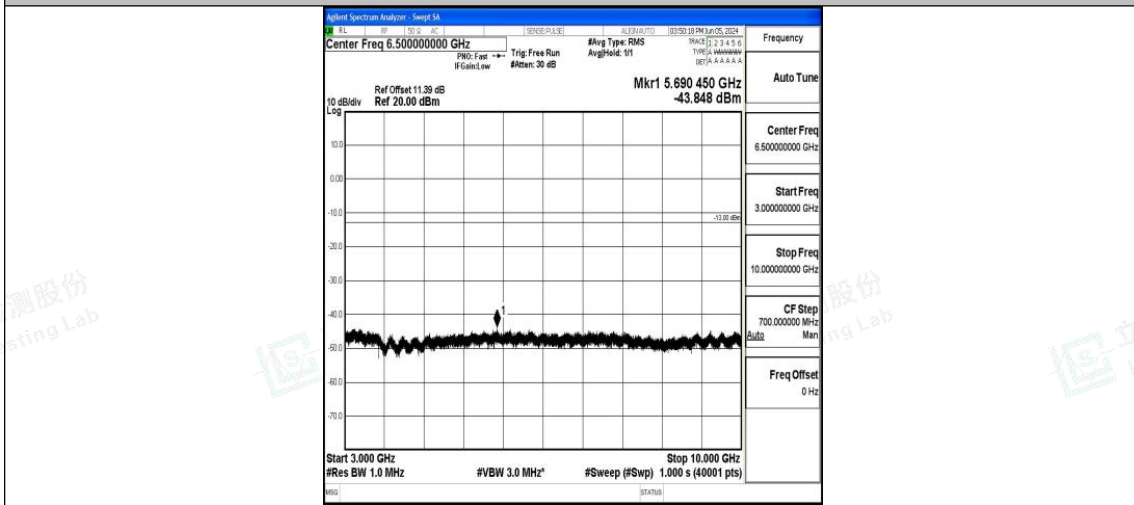


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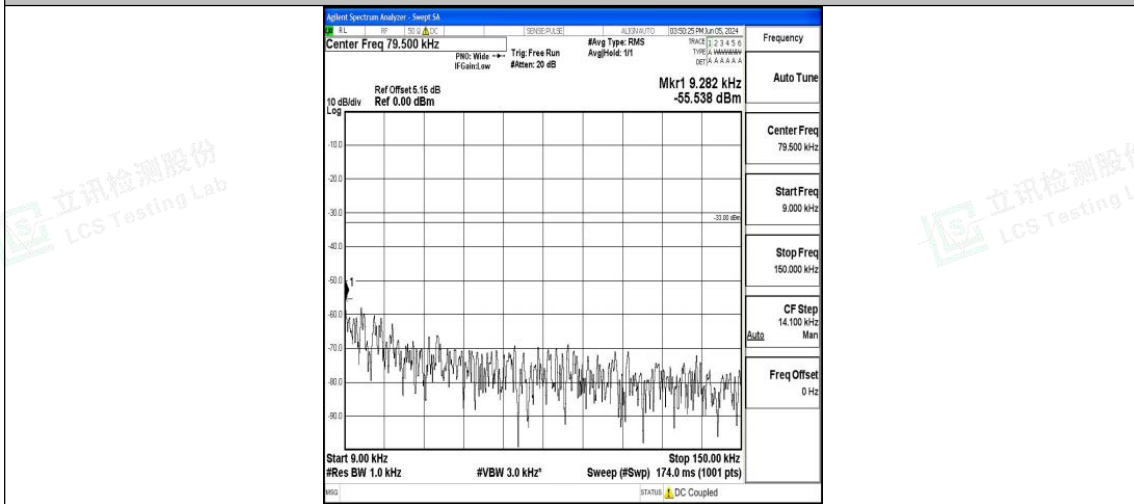




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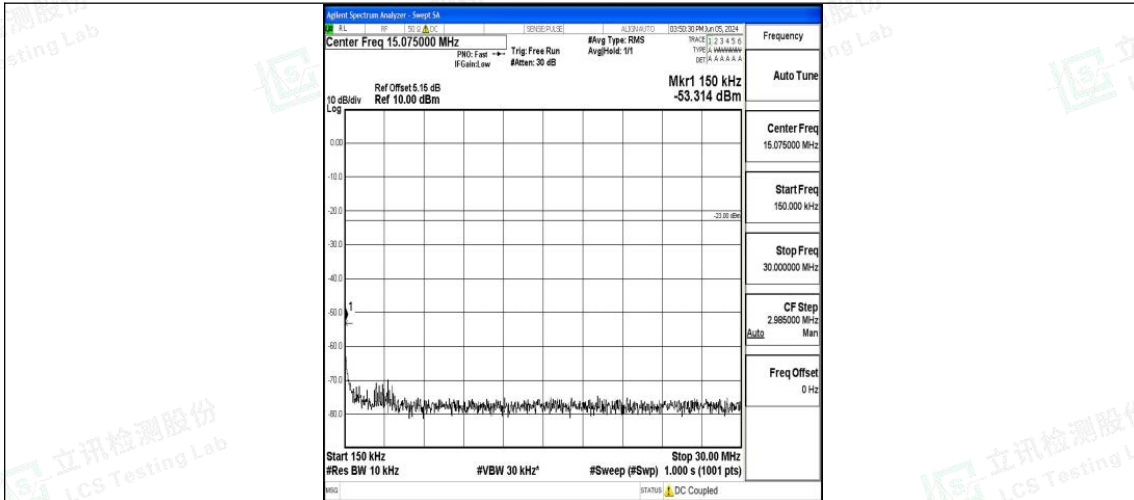


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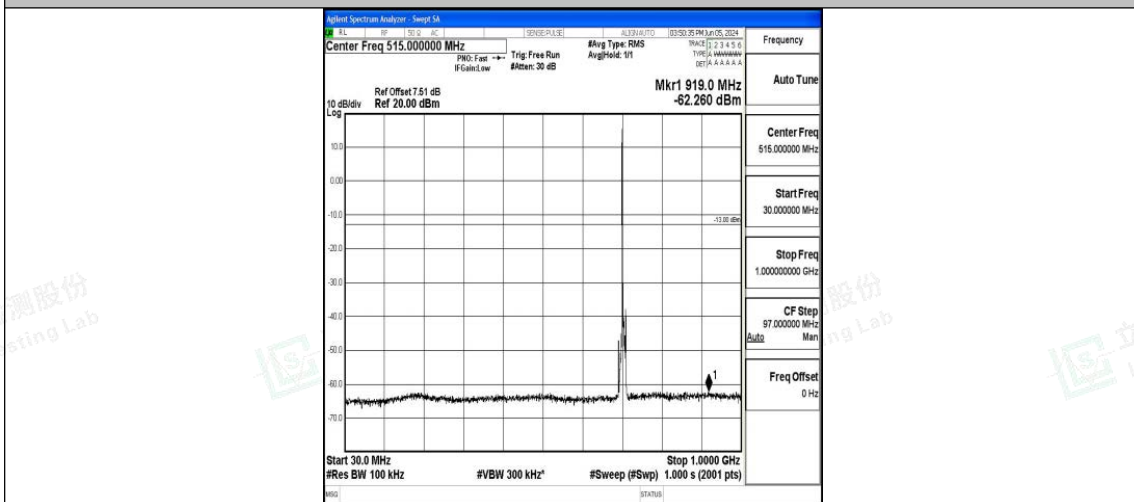


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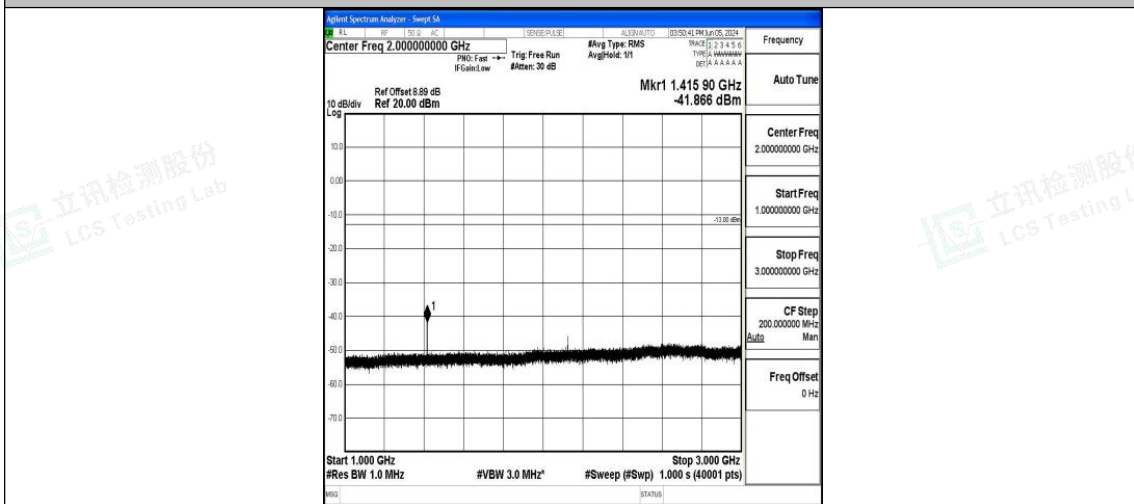




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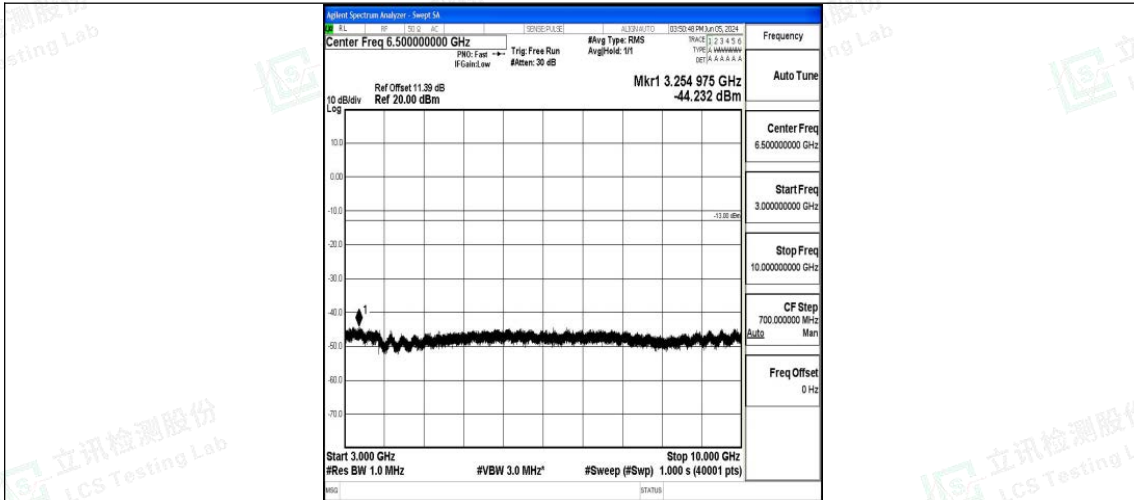


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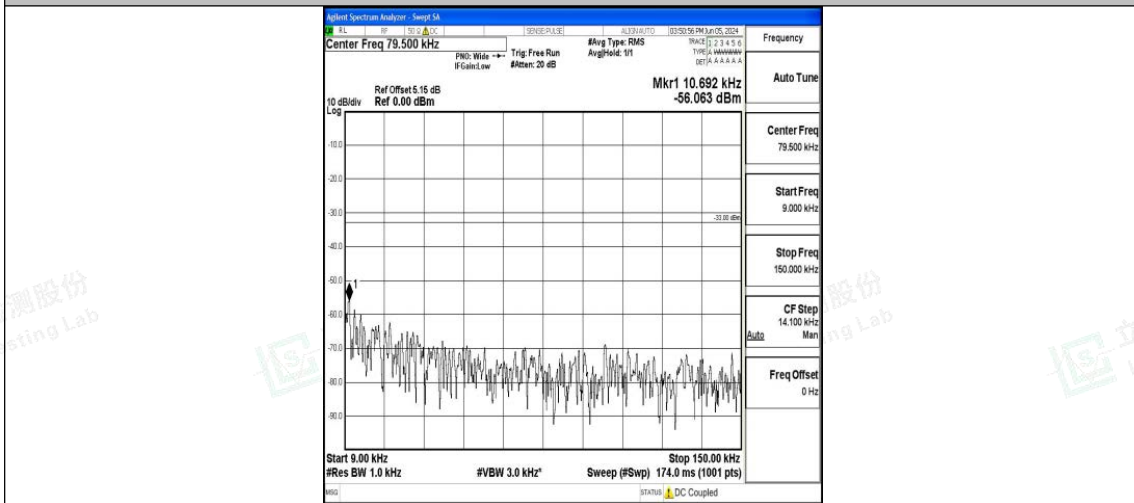


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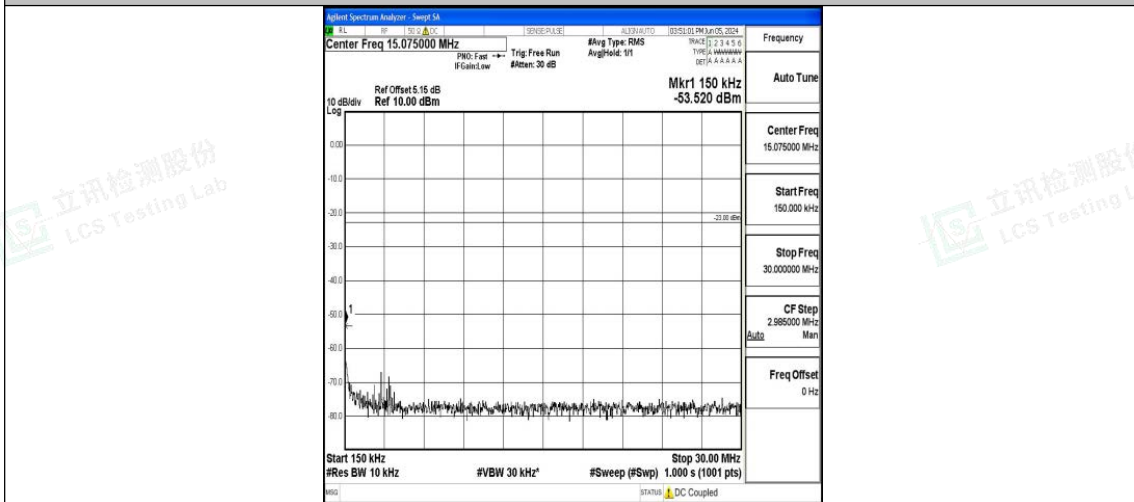




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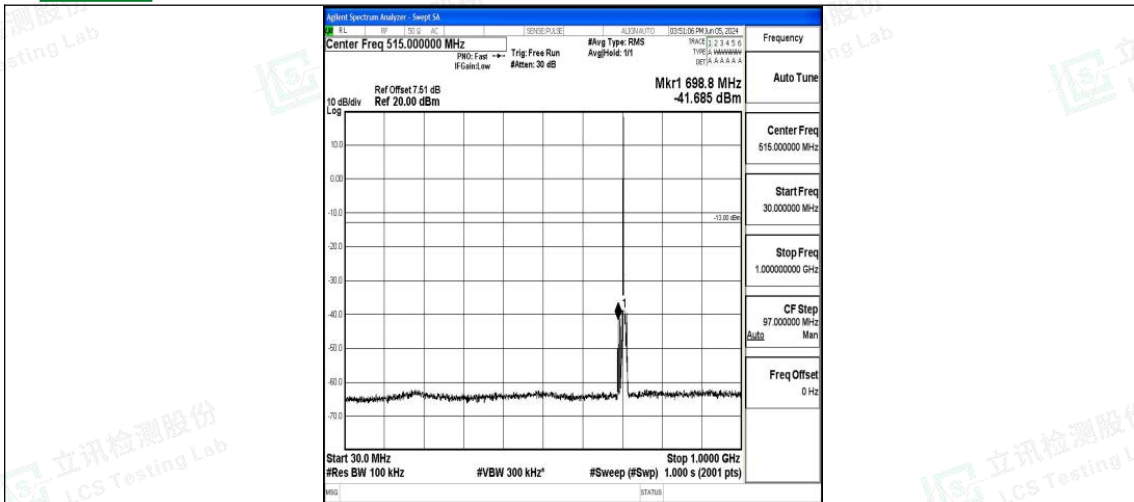


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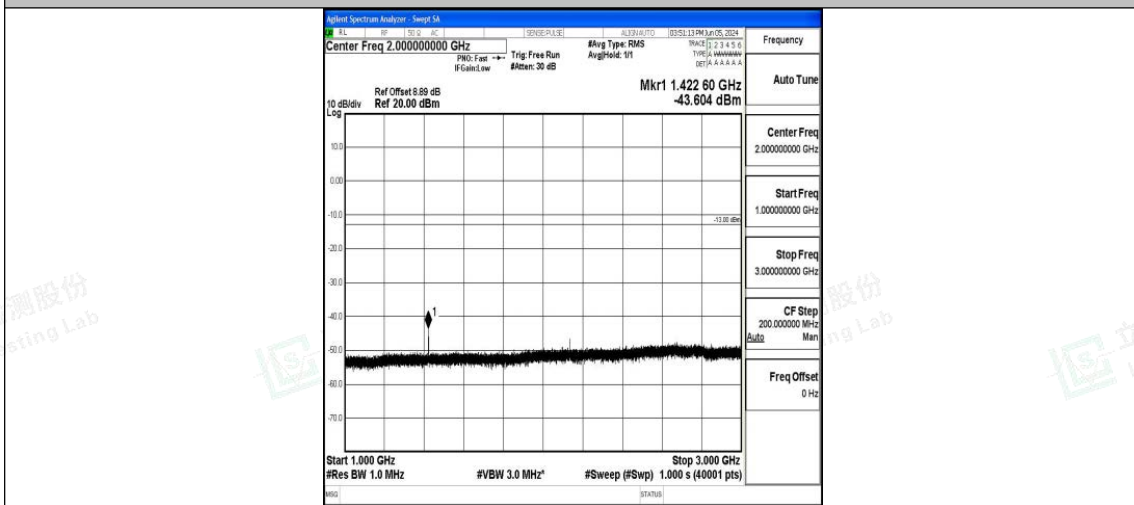


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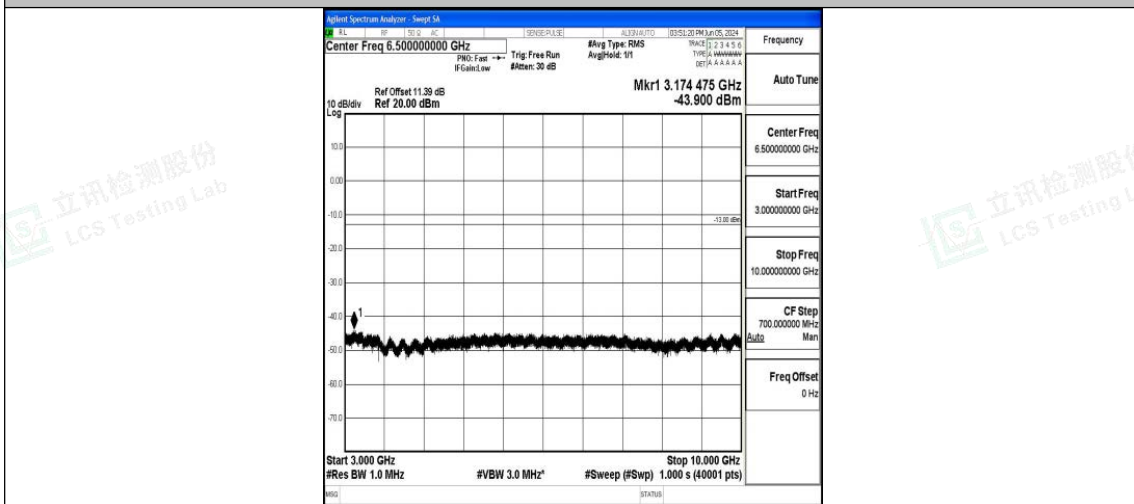




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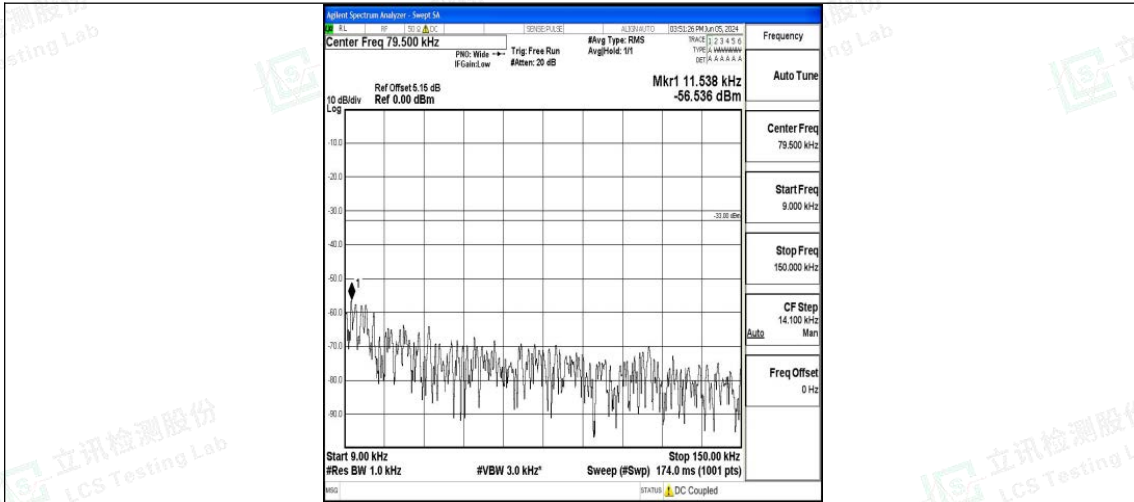


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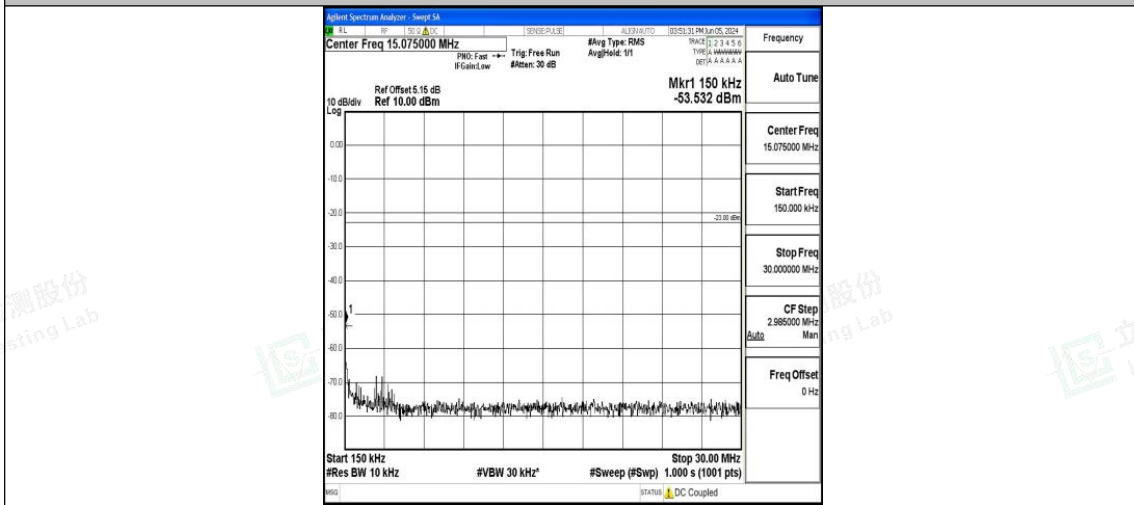


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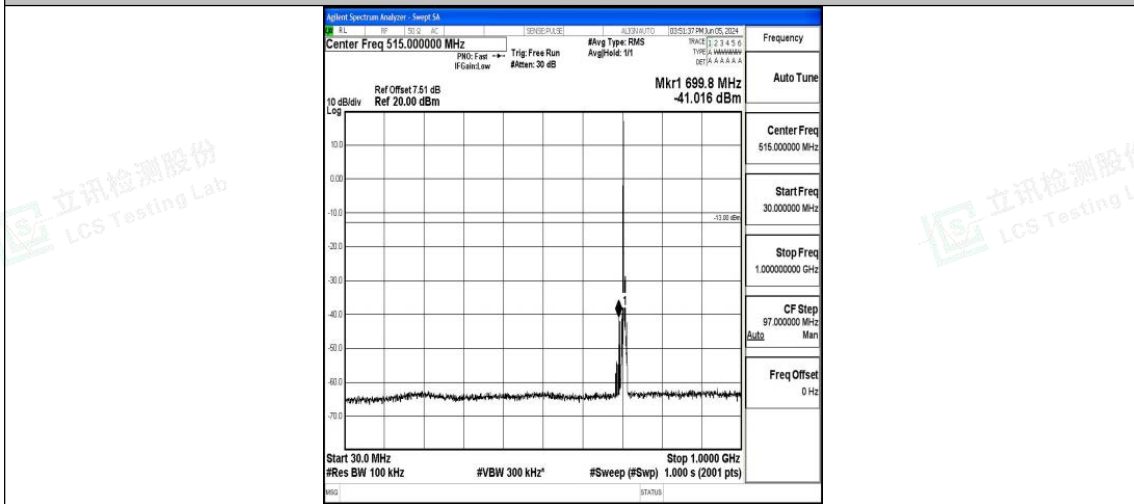




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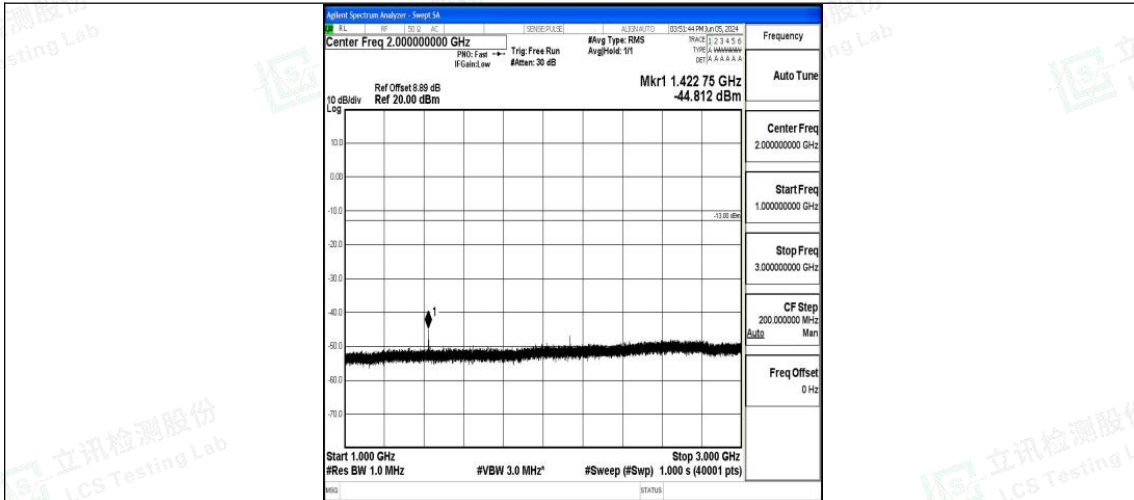


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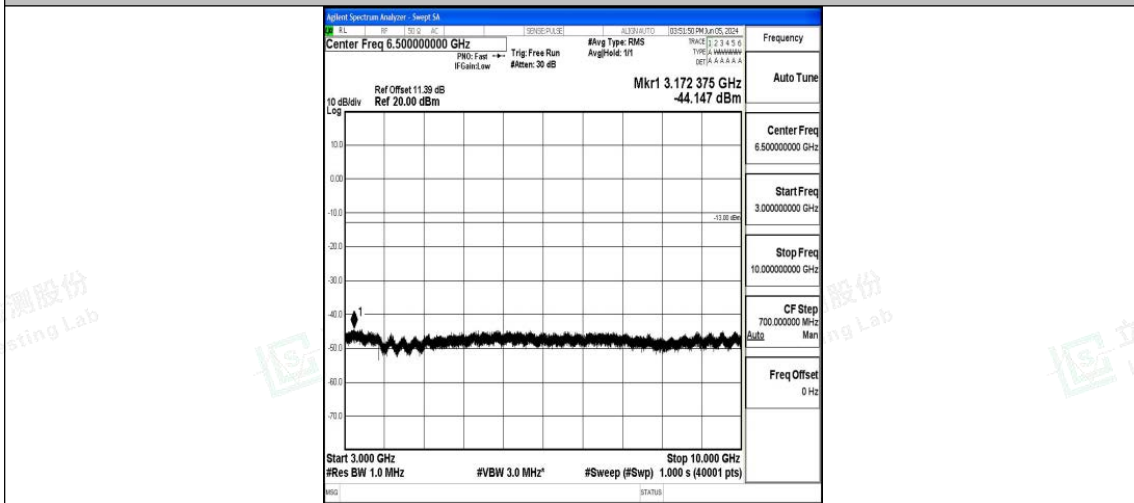


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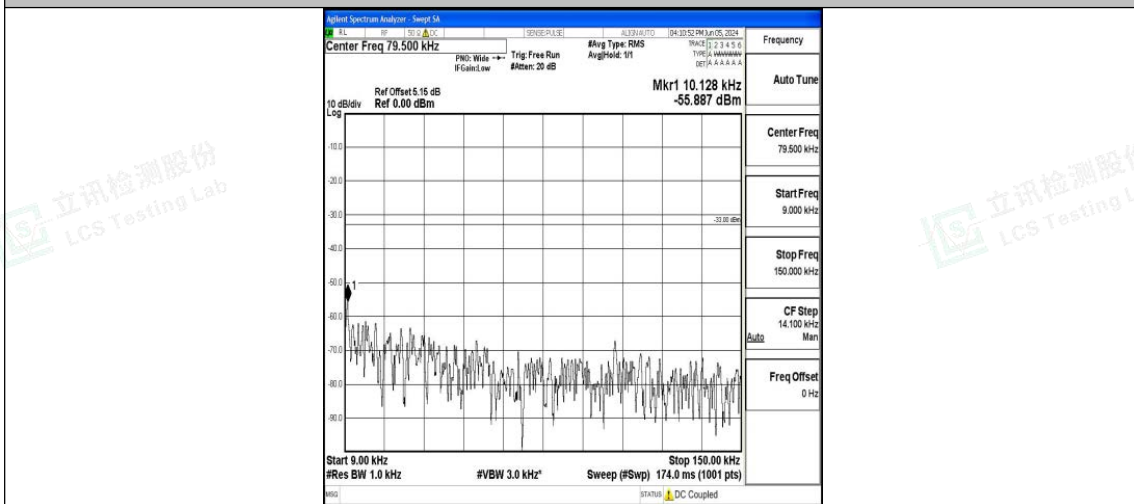




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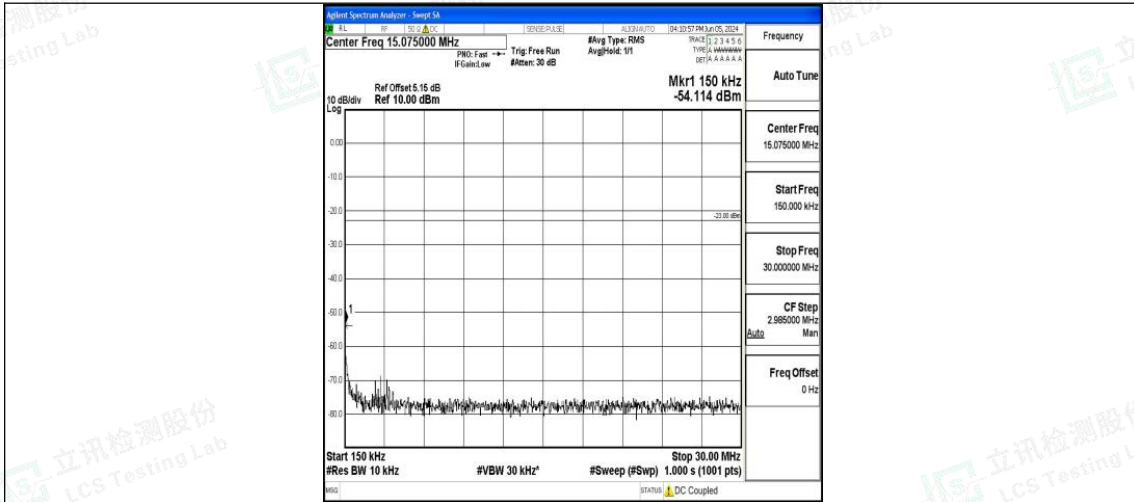


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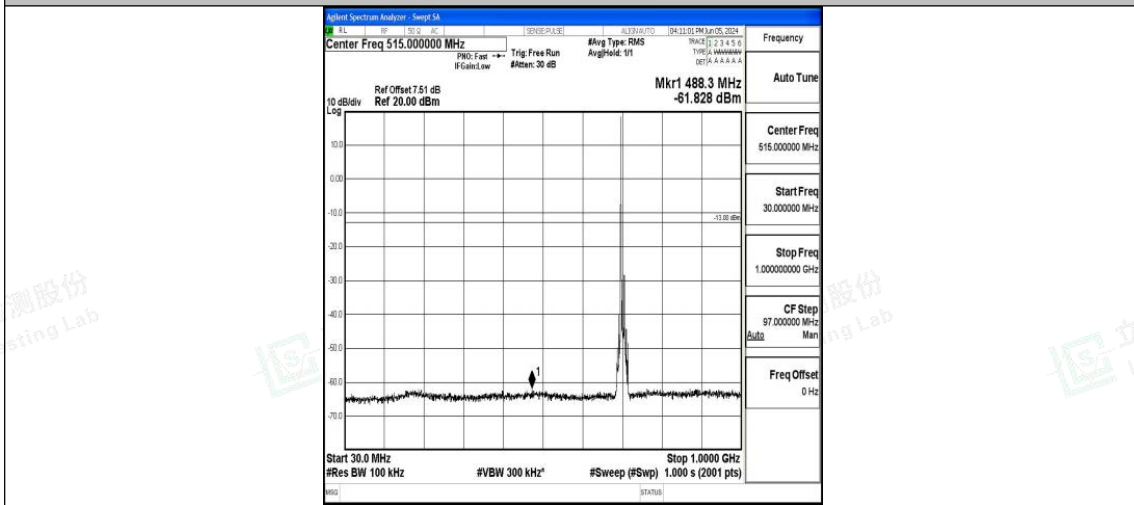


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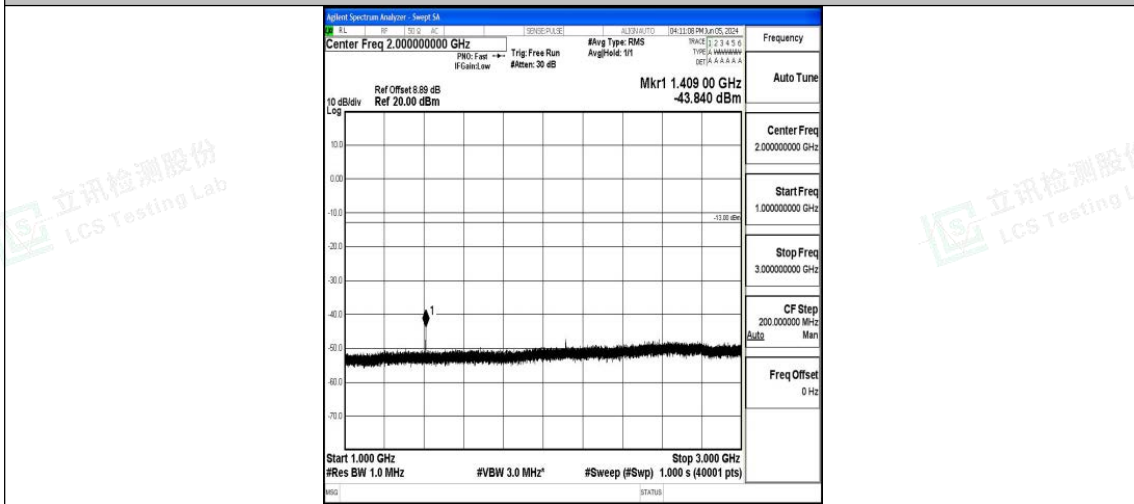




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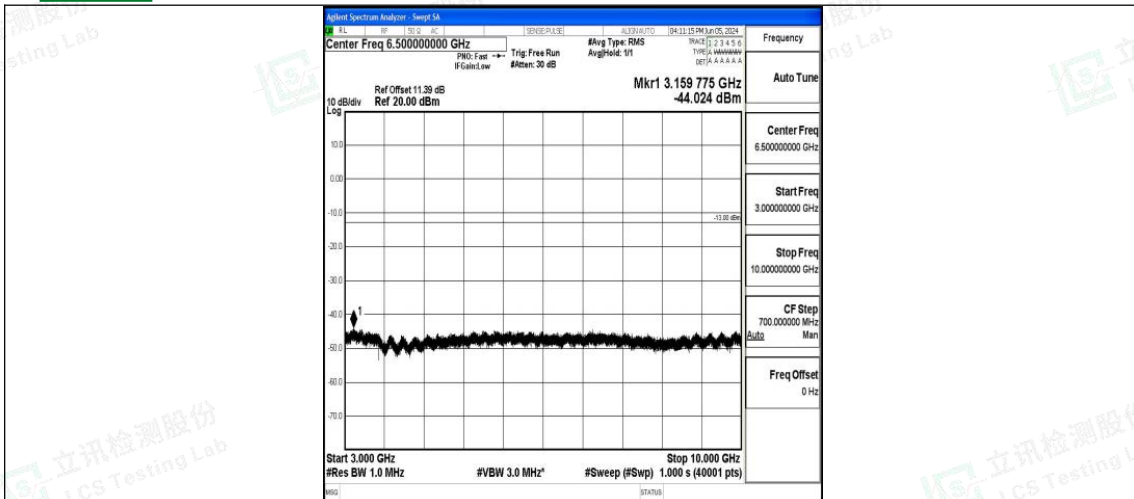


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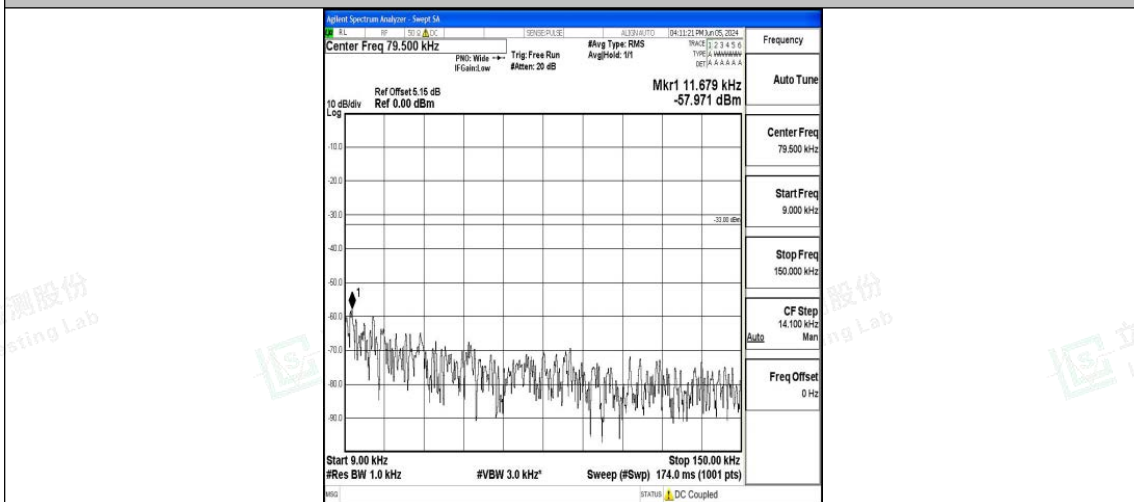


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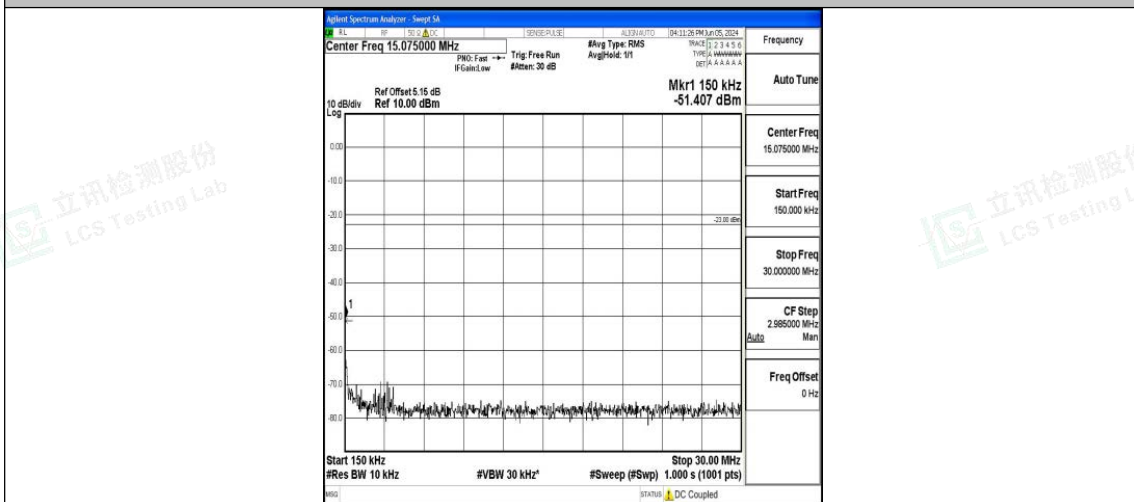




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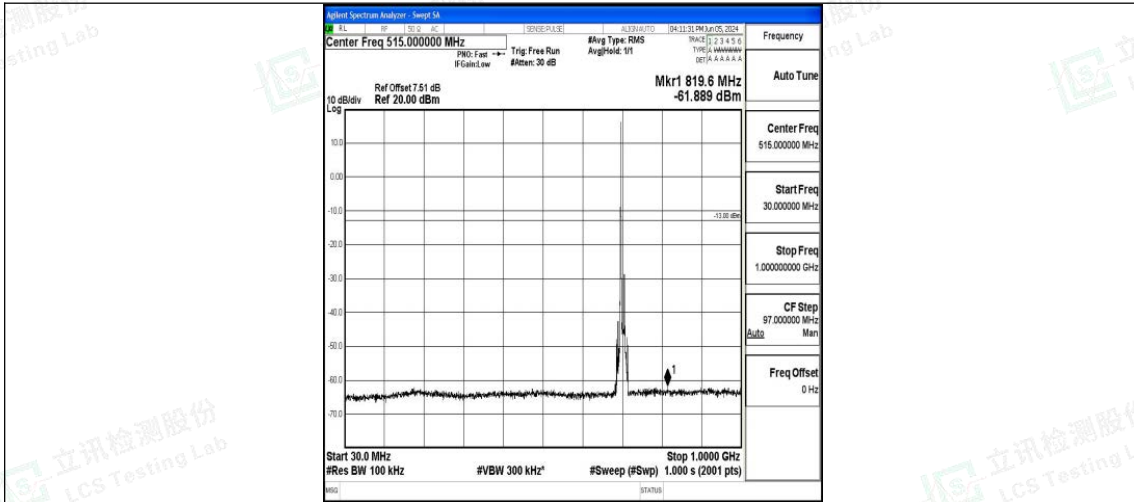


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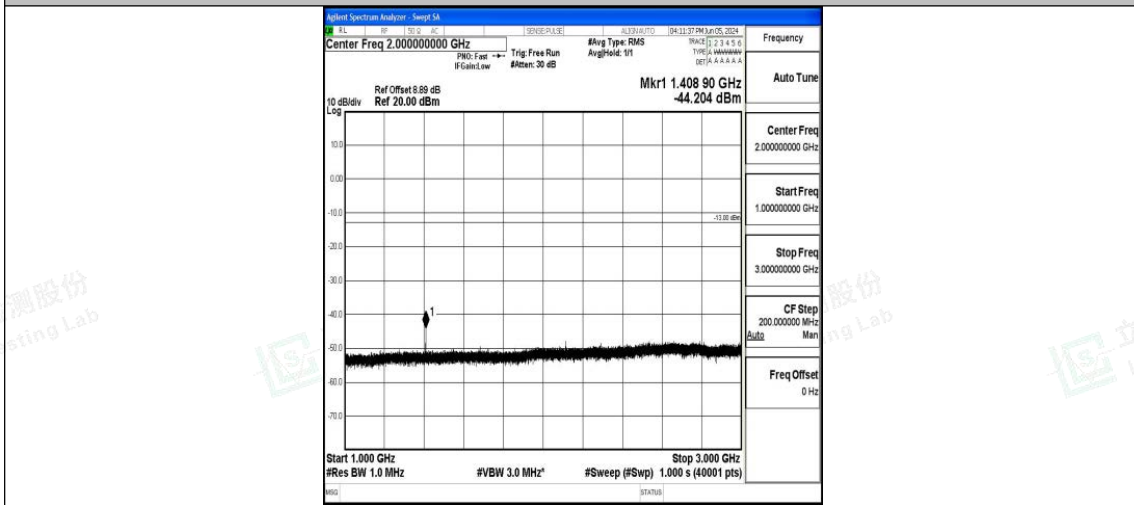


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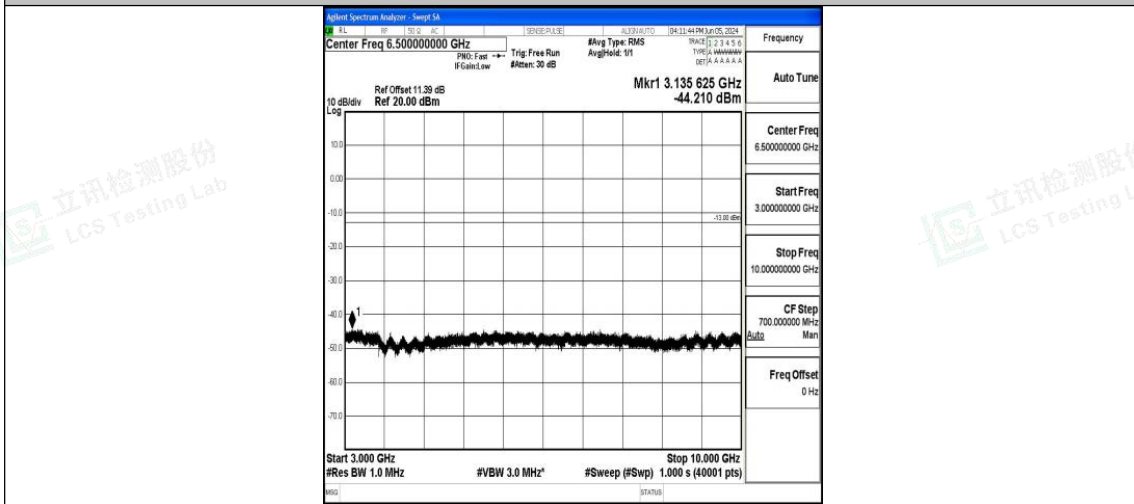




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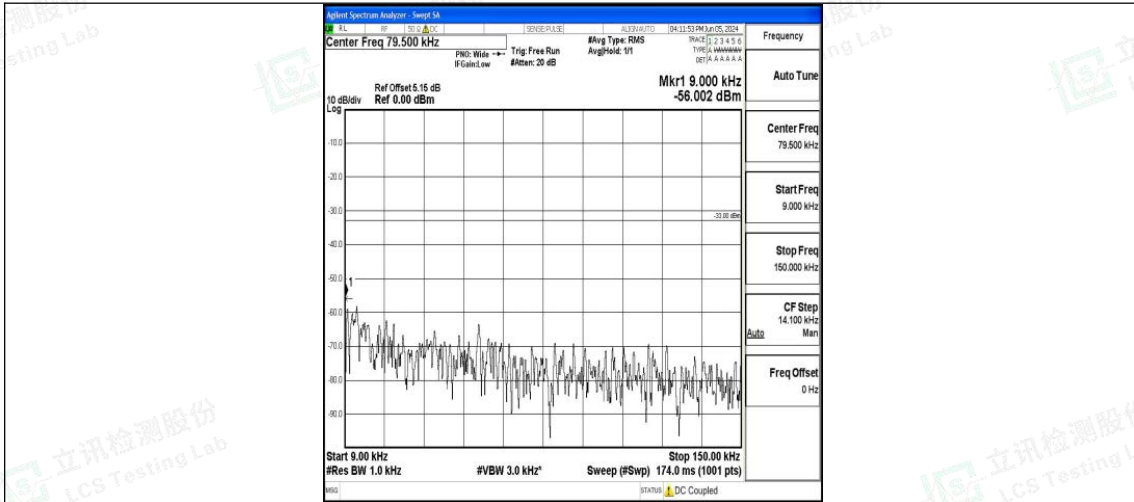


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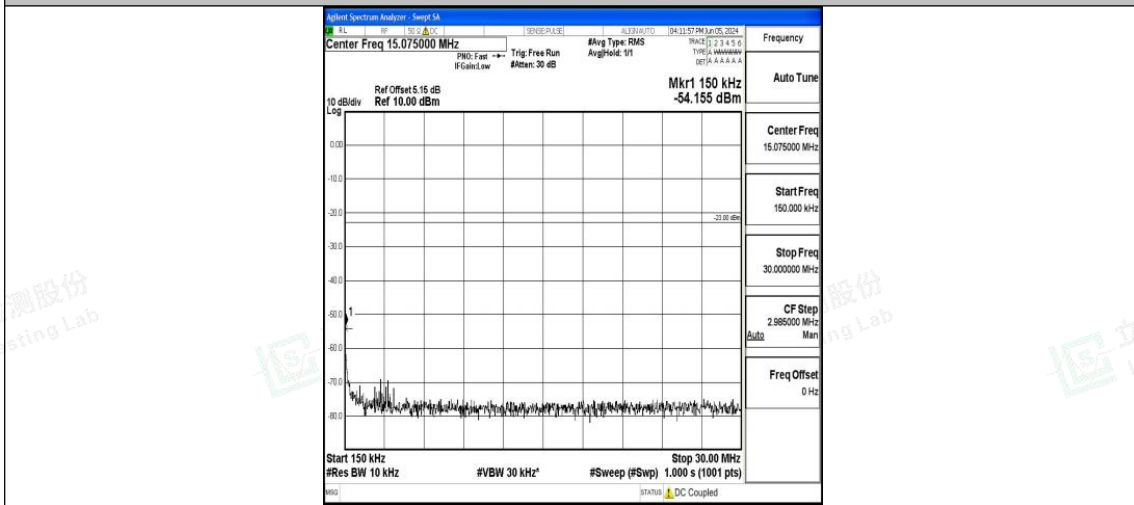


Band17_10MHz_16QAM_23780_1RB#0_3000~10000_3000~10000

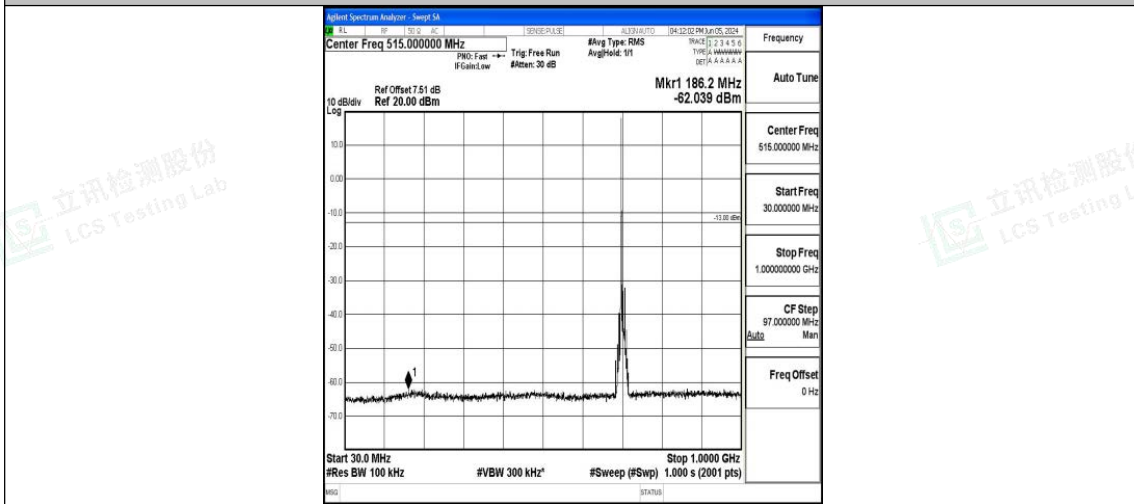




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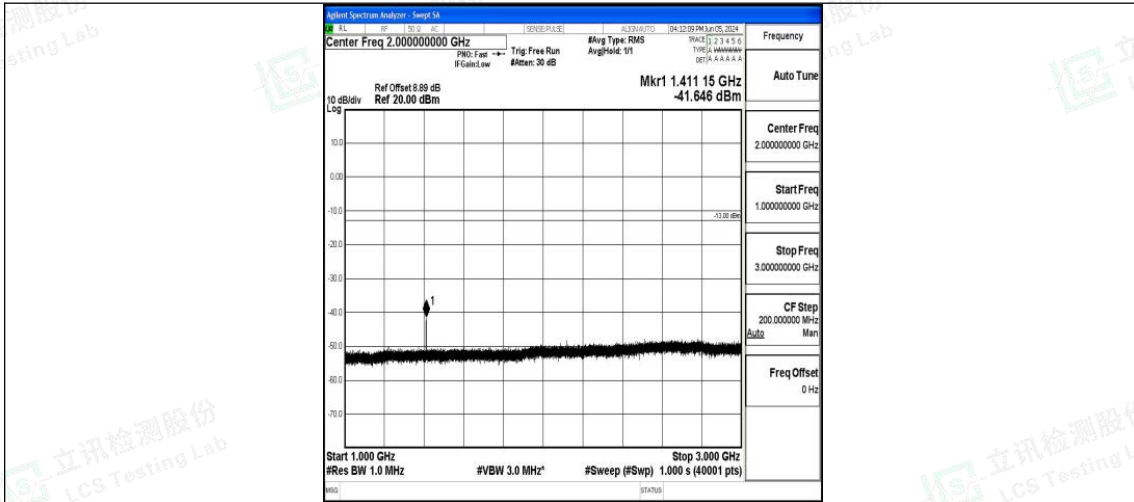


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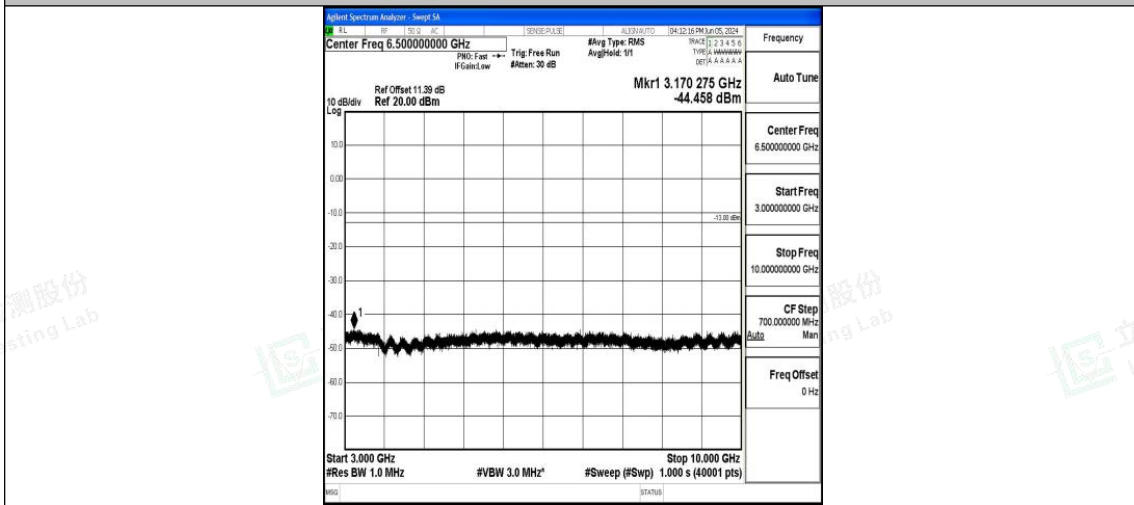


Band17_10MHz_QPSK_23790_1RB#0_30~1000_30~1000

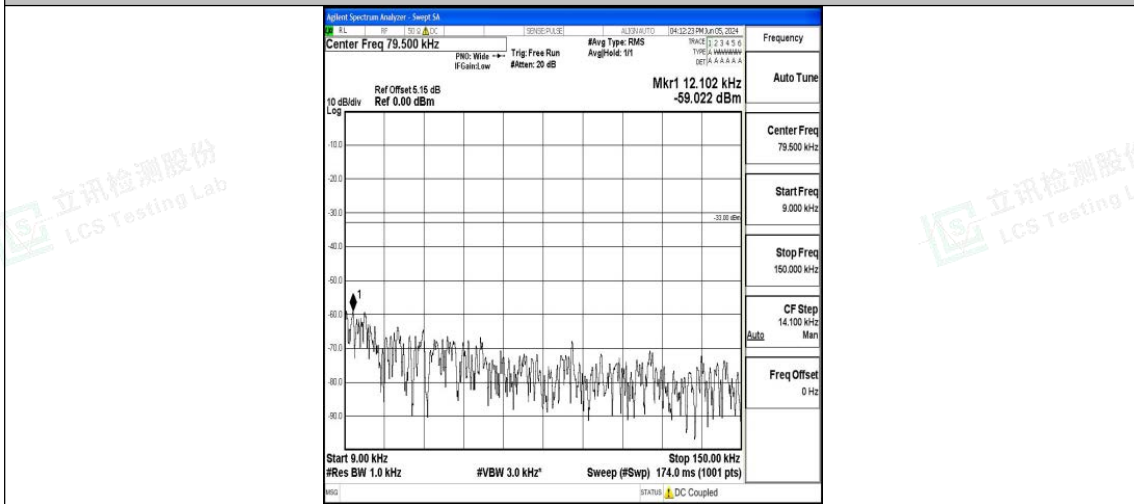




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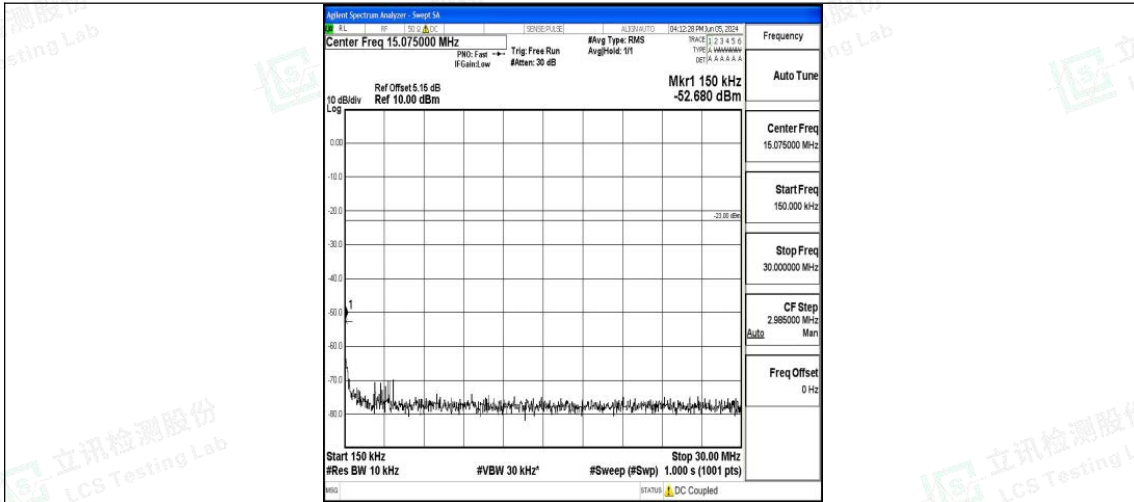


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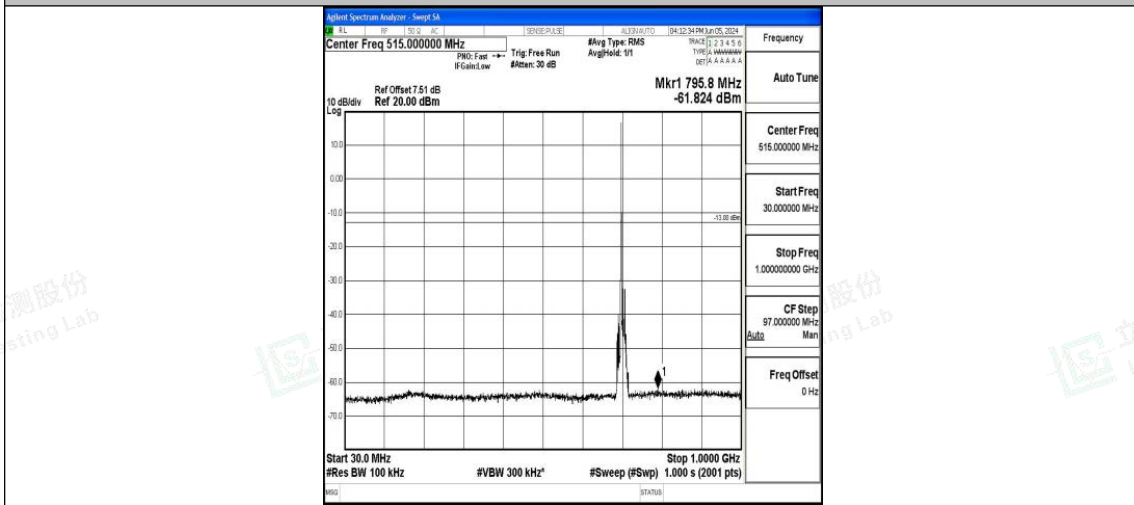


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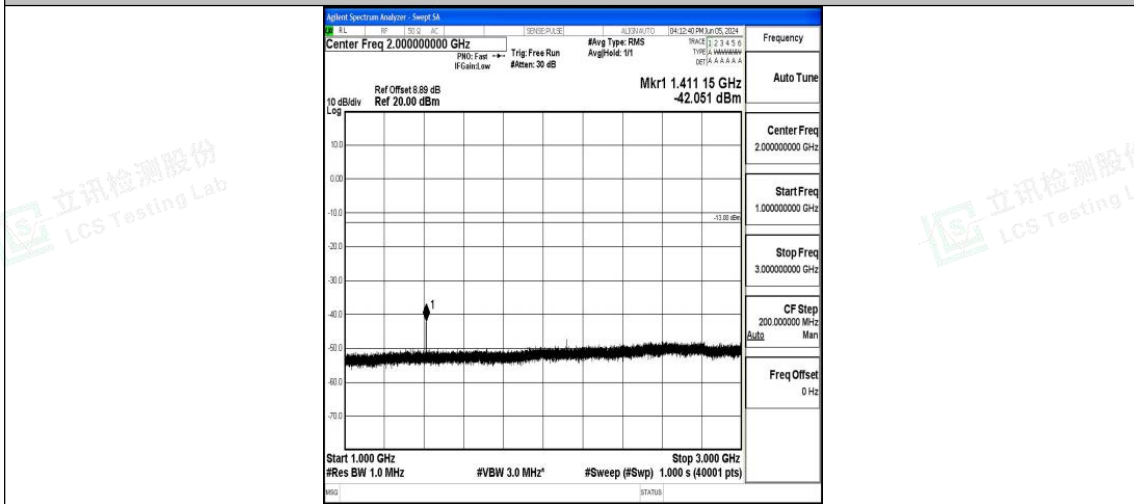




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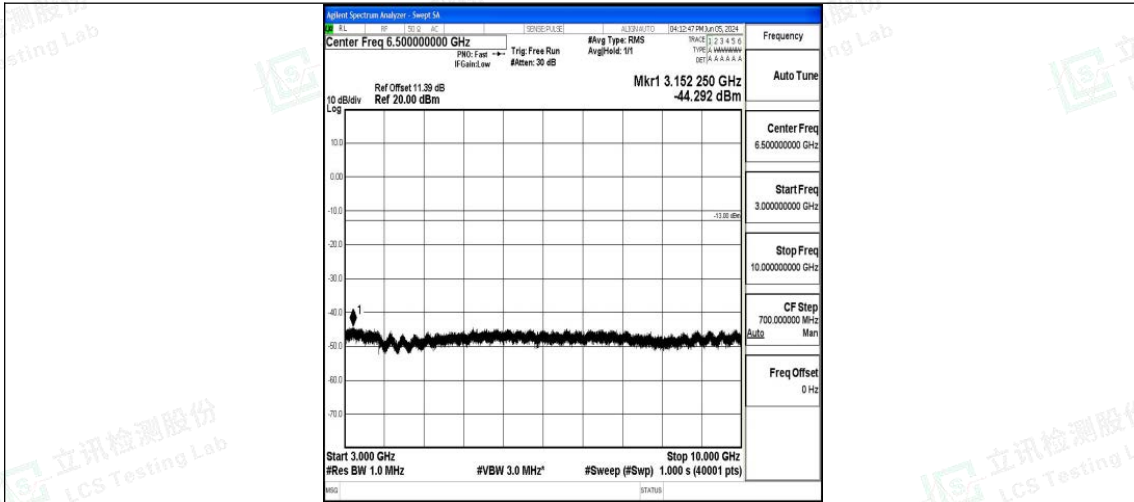


Band17_10MHz_16QAM_23790_1RB#0_30~1000_30~1000

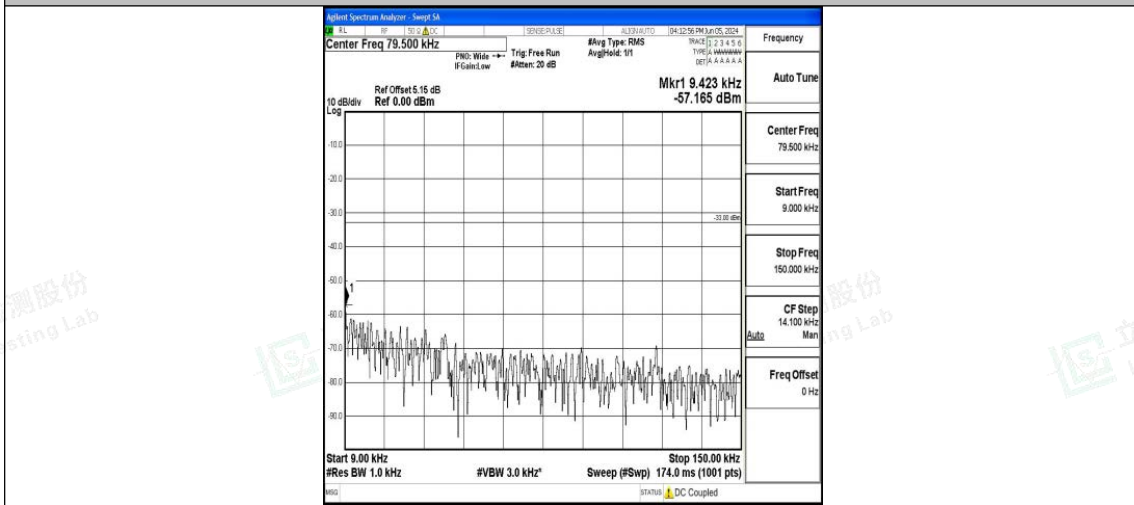


Band17_10MHz_16QAM_23790_1RB#0_1000~3000_1000~3000

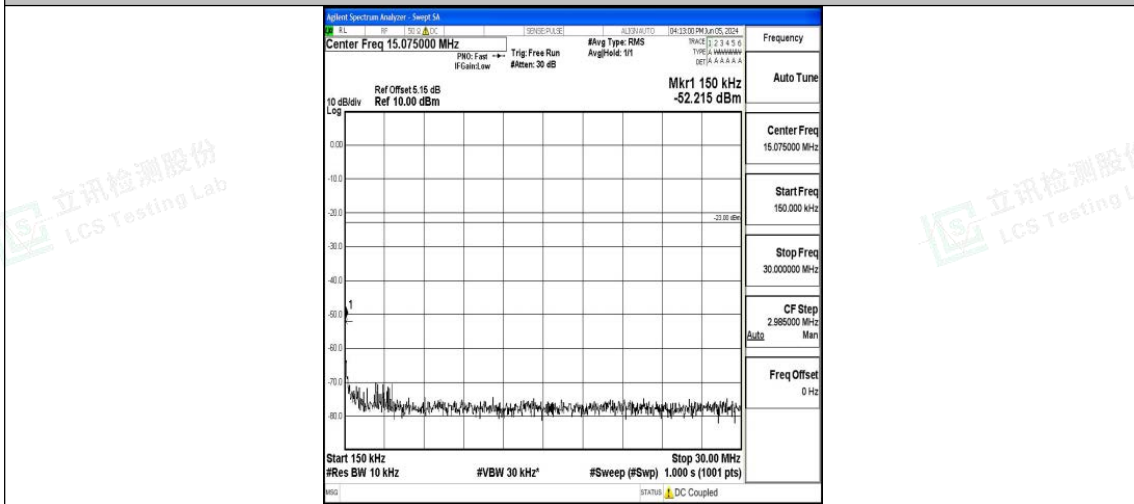




Band17_10MHz_16QAM_23790_1RB#0_3000~10000_3000~10000

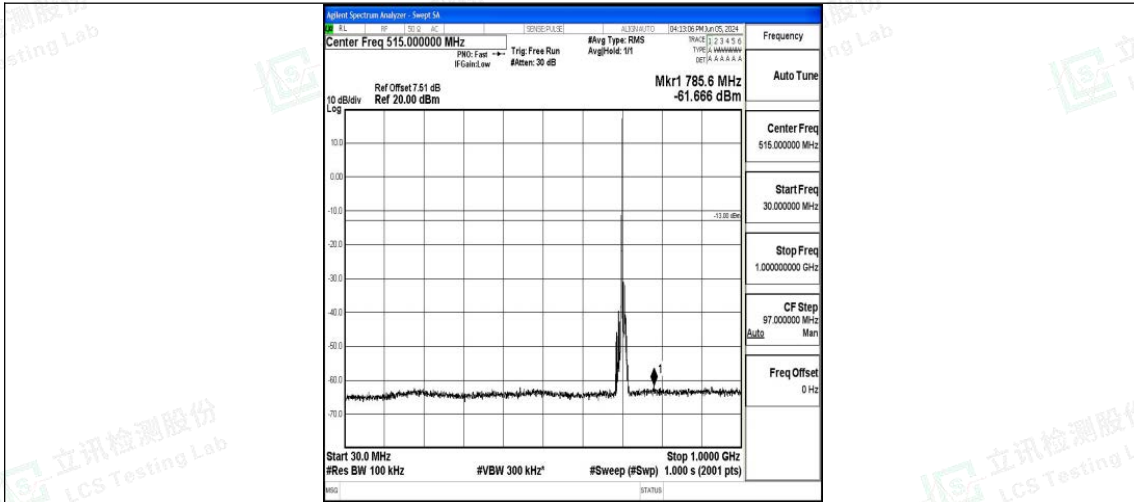


Band17_10MHz_QPSK_23800_1RB#0_0.009~0.15_0.009~0.15

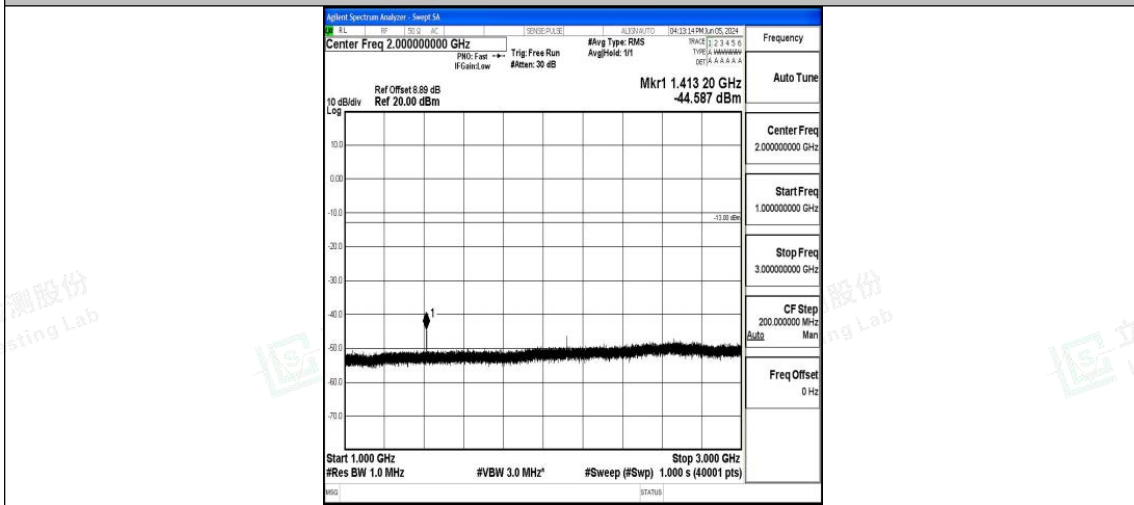


Band17_10MHz_QPSK_23800_1RB#0_0.15~30_0.15~30

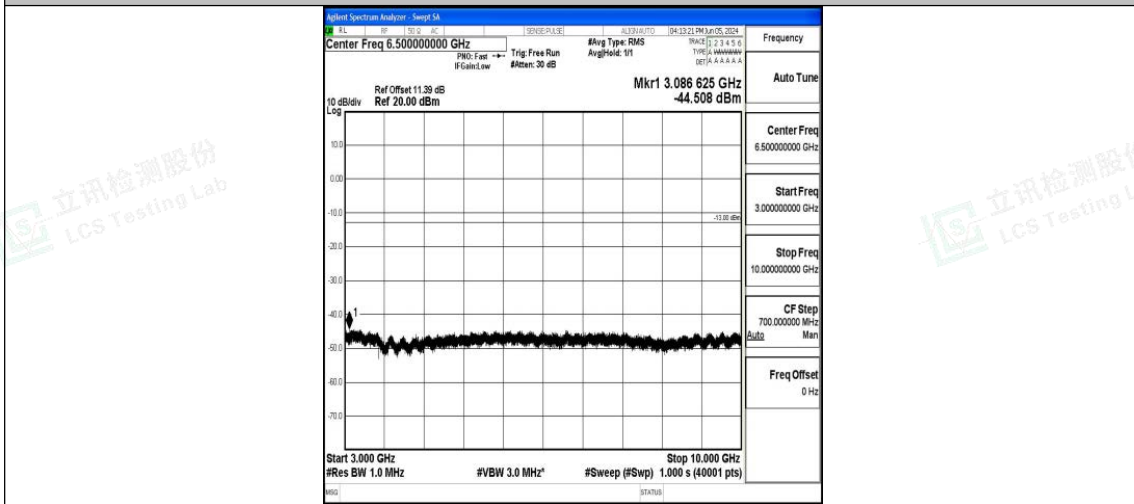




Band17_10MHz_QPSK_23800_1RB#0_30~1000_30~1000

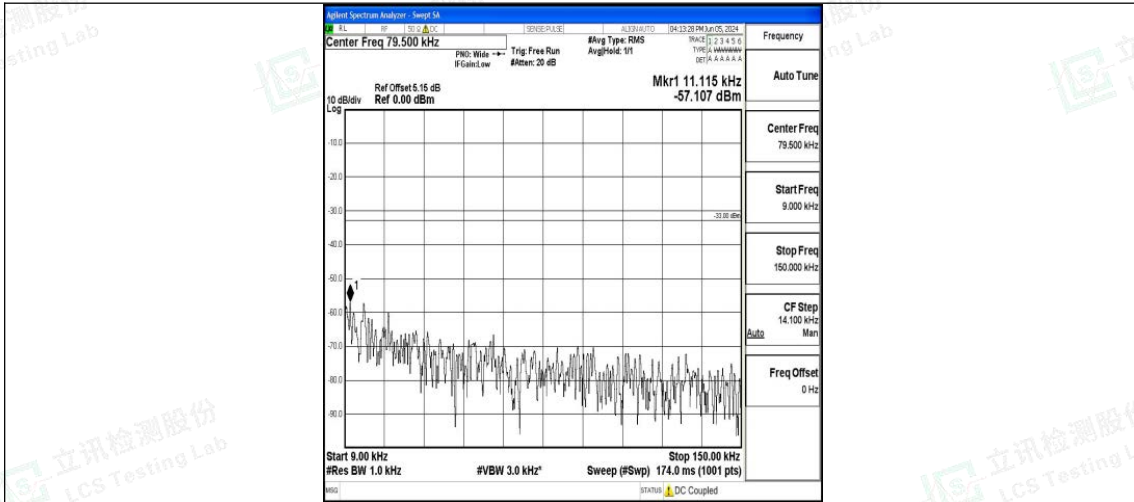


Band17_10MHz_QPSK_23800_1RB#0_1000~3000_1000~3000

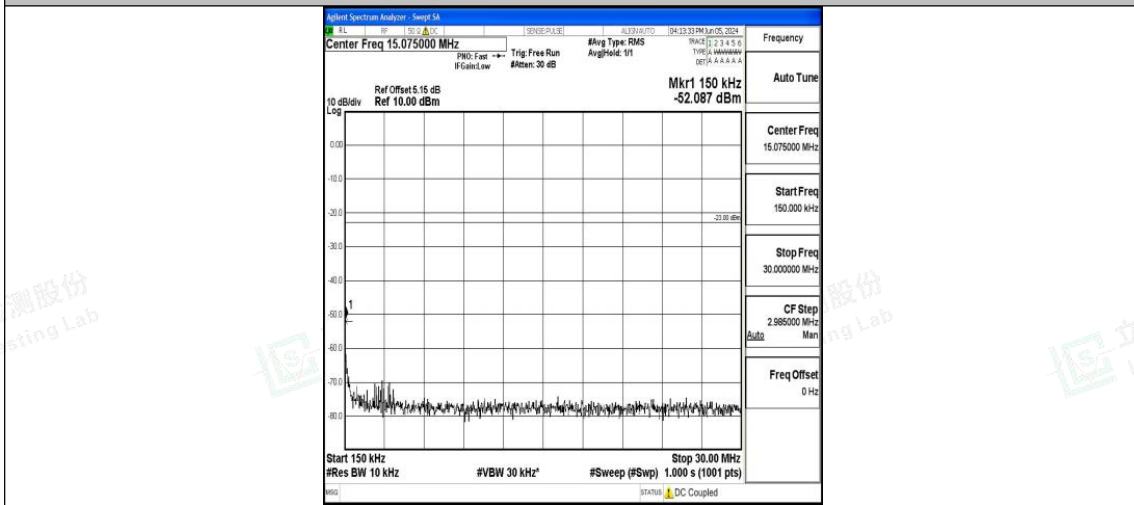


Band17_10MHz_QPSK_23800_1RB#0_3000~10000_3000~10000

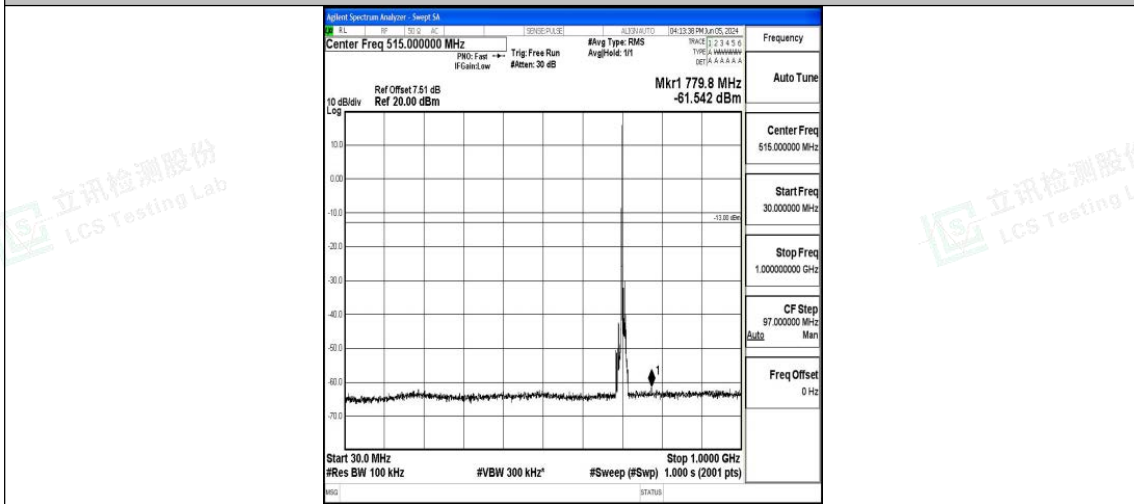




Band17_10MHz_16QAM_23800_1RB#0_0.009~0.15_0.009~0.15

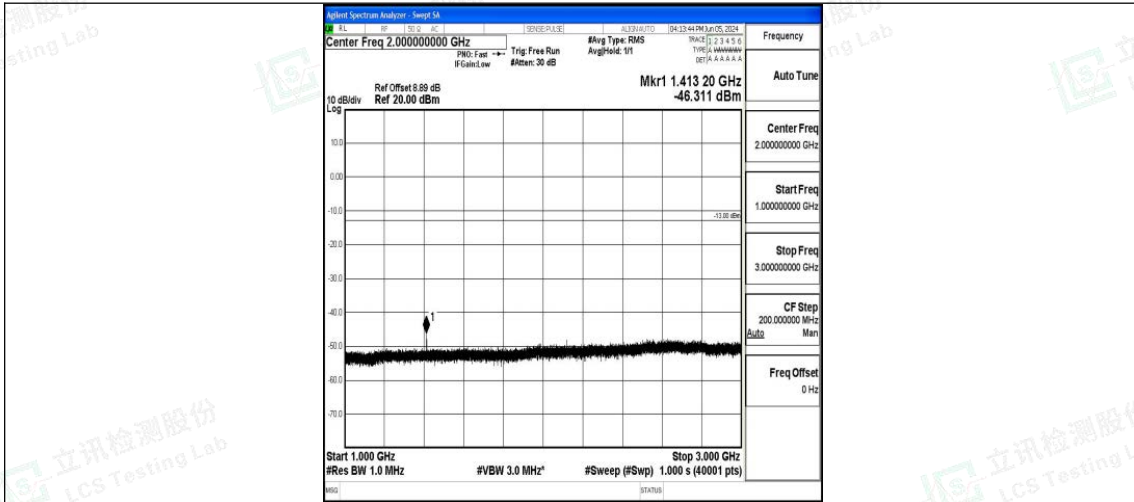


Band17_10MHz_16QAM_23800_1RB#0_0.15~30_0.15~30

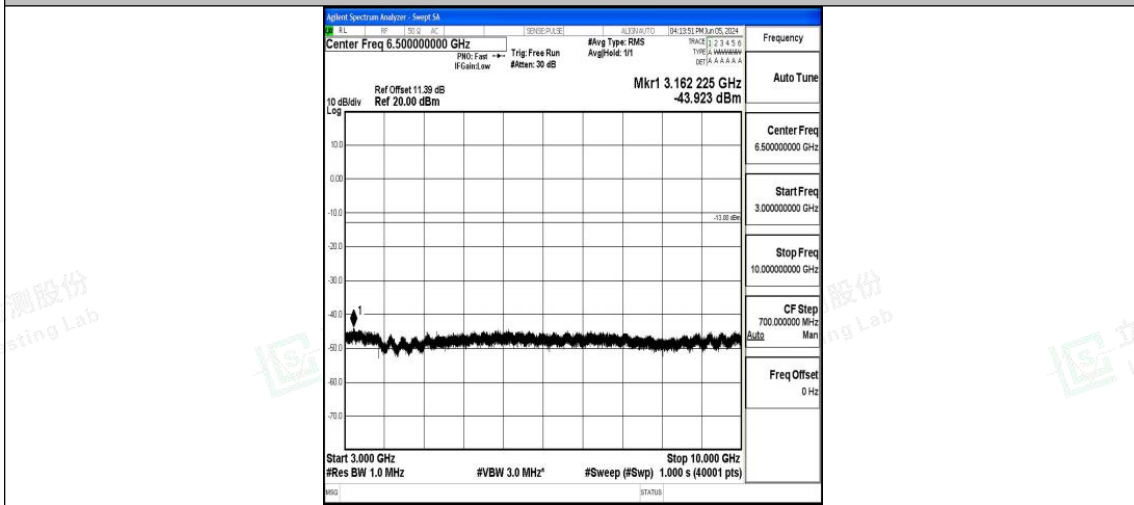


Band17_10MHz_16QAM_23800_1RB#0_30~1000_30~1000





Band17_10MHz_16QAM_23800_1RB#0_1000~3000_1000~3000



Band17_10MHz_16QAM_23800_1RB#0_3000~10000_3000~10000

